

STRUCTURE SEARCH

=> d his 1135

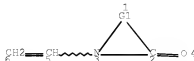
(FILE 'HCAPLUS' ENTERED AT 11:16:13 ON 28 AUG 2009)

L135 30 S L134 OR L132

=> d que 1135

L2 6 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON (134367-40-1/
 BI OR 28133-65-5/BI OR 2997-92-4/BI OR 6132-04-3/BI OR
 7757-82-6/BI OR 9003-39-8/BI)

L3 STR



REP G1=(2-8) C
 NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ELEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RSPEC I
 NUMBER OF NODES IS 6

STEREO ATTRIBUTES: NONE

L5 SCR 2043
 L7 10986 SEA FILE=REGISTRY GSS FUL L3 AND L5
 L9 56482 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L7
 L10 QUE SPE=ON ABB=ON PLU=ON SALT OR ELECTROLYT?
 L11 QUE SPE=ON ABB=ON PLU=ON SUSPEN? OR DISPERS? OR COL
 LOID? OR EMULS? OR MICROEMULS? OR SLURR?
 L12 3337 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L9 AND L10
 AND L11
 L13 56173 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON DISPERS?(2A) (P
 OLYMERI? OR ANION? OR AGENT)
 L14 501 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L12 AND L13
 L15 QUE SPE=ON ABB=ON PLU=ON "DISPERSING AGENTS"/CT
 L16 QUE SPE=ON ABB=ON PLU=ON "DISPERSE SYSTEMS"/CT
 L17 QUE SPE=ON ABB=ON PLU=ON "SALTS, USES"/CT
 L18 9 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L9 AND (L15
 OR L16) AND L17
 L19 502 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L14 OR L18
 L20 3 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L2 AND
 ?SALT?/CNS
 L21 1 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON SODIUM
 SULFATE/CN
 L22 1 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON POTASSIUM
 SULFATE/CN
 L23 1 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON AMMONIUM
 SULFATE/CN
 L24 1 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON MAGNESIUM
 SULFATE/CN
 L25 1 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON ALUMINUM
 SULFATE/CN
 L26 1 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON SODIUM
 CHLORIDE/CN
 L27 1 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON POTASSIUM
 CHLORIDE/CN
 L28 1 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON SODIUM

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L29 1 DIHYDROGEN PHOSPHATE/CN
SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON DIAMMONIUM
HYDROGEN PHOSPHATE/CN
L30 1 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON DIPOTASSIUM
HYDROGEN PHOSPHATE/CN
L31 2 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON CALCIUM
PHOSPHATE/CN
L32 2 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON SODIUM
CITRATE/CN
L33 1 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON IRON
SULFATE/CN
L34 1 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON CALCIUM
NITRATE/CN
L35 1 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON SODIUM
NITRATE/CN
L36 1 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON AMMONIUM
NITRATE/CN
L37 1 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON ALUMINUM
NITRATE/CN
L38 1 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON SODIUM
THIOCYANATE/CN
L39 1 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON SODIUM
IODIDE/CN
L40 23 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON (L20 OR L21
OR L22 OR L23 OR L24 OR L25 OR L26 OR L27 OR L28 OR
L29 OR L30 OR L31 OR L32 OR L33 OR L34 OR L35 OR L36
OR L37 OR L38 OR L39)
L41 3 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON ("SODIUM
CITRATE ANHYDROUS"/CN OR "SODIUM CITRATE DIHYDRATE"/CN
OR "SODIUM CITRATE HYDRATE"/CN)
L42 24 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L40 OR L41
L43 STR



VAR G1=5/6
VAR G2=14/15
VAR G3=3/9
NODE ATTRIBUTES:
CONNECT IS E1 RC AT 4
CONNECT IS E1 RC AT 5
CONNECT IS E1 RC AT 6
CONNECT IS E1 RC AT 10
CONNECT IS E1 RC AT 13
DEFAULT MLEVEL IS ATOM
DEFAULT ELEVEL IS LIMITED
ECOUNT IS M1-X15 C AT 5
ECOUNT IS M1-X12 C AT 14
ECOUNT IS M3-X12 C AT 15
GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 16

STEREO ATTRIBUTES: NONE
L45 SCR 1199
L50 SCR 1929 OR 2025 OR 2019 OR 2026 OR 1992 OR 2021 OR 1949
L52 370456 SEA FILE=REGISTRY SSS FUL L43 AND L45 NOT L50
L54 12870 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L52 AND

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A1/PG
 L55 15 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L52 AND
 ?AMMONIUM?/CNS
 L58 70107 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON 79-10-7/RN,CR
 N
 L59 1 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON 9003-01-4/RN
 L61 54786 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON 79-41-4/RN,CR
 N
 L62 118683 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L58 OR L59
 OR L61
 L63 20091 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L62 AND
 (A1/PG OR ?AMMONIUM?/CNS)
 L64 12559 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L52 AND
 ((FORMIC OR ACETIC OR CITRIC OR OXALIC OR MALONIC)/CNS
 AND ?ACID?/CNS)
 L74 QUE SPE=ON ABB=ON PLU=ON L42
 L75 4262 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L9 AND L74
 L82 QUE SPE=ON ABB=ON PLU=ON L54 OR L55
 L83 QUE SPE=ON ABB=ON PLU=ON L63
 L84 4156 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L9 AND (L82
 OR L83)
 L85 10249 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L9 AND L64
 L86 14383 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L75 OR L84 OR
 L85
 L87 297 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L86 AND L19
 L88 297 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L87 AND (L13
 OR L15 OR L16)
 L89 981 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON ?POLYM?(4A)ANI
 ON?(4A)DISPERS?
 L90 12 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L88 AND L89
 L93 10948 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L41
 L94 561 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L86 AND L93
 L95 2 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L94 AND L89
 L96 25 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L86 AND L89
 L97 6017 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L9 AND L61
 L98 12616 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L9 AND L62
 L99 2242 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L98 AND L63
 L100 15 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L99 AND L89
 L101 25701 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L62(3A)COPOLYM
 ER
 L102 1424 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L9 AND L101
 L103 9 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L102 AND L89
 L104 27 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L90 OR L95 OR
 L96 OR L100 OR L103
 L105 12 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L104 AND L19
 L106 33 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L104 OR L105
 OR L18
 L107 2909 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON ANION?(2A)DISP
 ERS?
 L108 20 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L107 AND L106
 L109 12616 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON (L97 OR L98
 OR L99) OR L102
 L110 27 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L109 AND L89
 L111 32 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L109 AND L107
 L112 42 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L108 OR L110
 OR L111
 L113 QUE SPE=ON ABB=ON PLU=ON VINYL(A)?LACTAM? OR VINYL
 LACTAM?
 L114 4 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L112 AND L113
 L116 QUE SPE=ON ABB=ON PLU=ON ?LACTAM?
 L117 QUE SPE=ON ABB=ON PLU=ON LACTAMS/CT
 L118 7 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L112 AND
 (L116 OR L117)

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L119 26 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L19 AND (L116
 OR L117)
 L120 64 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L112 OR L114
 OR L118 OR L119
 L121 QUE SPE=ON ABB=ON PLU=ON L2
 L122 416 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L19 AND L121
 L124 10 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L122 AND L89
 L125 17 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L122 AND L107

 L126 31 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L120 AND L89
 L127 36 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L120 AND L107

 L128 49 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON (L124 OR L125
 OR L126 OR L127)
 L129 QUE SPE=ON ABB=ON PLU=ON PRODUC? OR PROD# OR GENERA
 T? OR MANUF? OR MFR# OR CREAT? OR FORM## OR FORMING# OR
 FORMAT? OR MAKE# OR MADE# OR MAKING# OR FABRICAT? OR S
 YNTHESIS? OR PREPAR? OR PREP# OR PROCESS? OR METHOD?
 L130 40 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L128 AND L129

 L131 QUE SPE=ON ABB=ON PLU=ON PY=<2004 NOT P/DT
 L132 0 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L130 AND L131

 L133 QUE SPE=ON ABB=ON PLU=ON (PY=<2004 OR PRY=<2004 OR
 AY=<2004 OR MY=<2004 OR REVIEW/DT) AND P/DT
 L134 30 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L130 AND L133

 L135 30 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L134 OR L132

STRUCTURE SEARCH RESULTS

=> d his 1137

(FILE 'HCAPLUS' ENTERED AT 11:16:13 ON 28 AUG 2009)
 L137 8 S L135 AND L136

=> d 1137 1-8 ibib ed abs hitstr hitind

L137 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2009 ACS ON STN
 ACCESSION NUMBER: 2005:1154598 HCAPLUS Full-text
 DOCUMENT NUMBER: 143:423028
 TITLE: Method for producing a

water-in-water polyvinylactam
 dispersion by radical
 polymerization in presence of
 salts and anionic
 dispersants

INVENTOR(S): Chrisstoffels, Lysander; Widmaier, Ralf;
 Garcia, Castro Ivette; Wegmann, Ludger
 PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany; Garcia
 Castro, Ivette

SOURCE: PCT Int. Appl., 26 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NO 2005100415	A1	20051027	NO 2005-EP3915	2005 0414
<--				
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RN: BW, GH, GM, KE, LS, MN, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, NI, TD, TG				
DE 102004019179	A1	20051110	DE 2004-102004019179	2004 0416
<--				
EP 1740624	A1	20070110	EP 2005-739403	2005 0414
<--				
EP 1740624	B1	20070905		
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
AT 372352	T	20070915	AT 2005-739403	2005 0414
<--				
JP 2007532734	T	20071115	JP 2007-507754	2005

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0414

US 20070154438

A1

20070705

<---

US 2006-591654

2006

0905

<---

PRIORITY APPLN. INFO.:

DE 2004-102004019179A

2004

0416

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WO 2005-EP3915

W

2005

0414

OTHER SOURCE(S): MARPAT 143:423028

ED Entered STN: 28 Oct 2005

AB A method for producing water-in-water polyvinylactam dispersions with a K value of \geq 120 in aqueous reaction media in the presence of anionic polymer dispersants and saturated with organic or inorg. salts by radical polymn of N-vinyl-2-pyrrolidone is described. The homo- or copolymers of ethylenically unsatd. C1-15 carboxylic acids, or sulfonic acids or their corresponding salts are used as anionic polymer dispersants. The prepared aqueous dispersions of polyvinylactams can be used in cosmetics, pharmaceuticals, adhesives, heat carrier liqs., as well as in formulations for coatings, thinners, adsorbents, binders, ceramics, plastics and metalworking. Thus, a polyvinylactam dispersion was prepared by dissolving 63.4 g of sodium sulfate in 330 g of deionized water containing 148 g of 20 % aqueous solution of hydrolyzed acrylic acid-vinylformamide copolymer (9:1 ratio) treated with NaOH, adding 5 % solution of sulfuric acid till pH of 6.8, heating this mixture at 60° for 2 h and 40 min, adding 233.4 g of N-vinyl-2-pyrrolidone, followed in 5 min by solution of 0.35 g of 2,2'-azobis(2-methylpropanimidamide) dichloride (V 50) in 55.9 g of deionized water, keeping reaction vessel at 60° for 3 h, heating reaction mixture to 75° and adding solution of 0.7 g of V 50 in 13 g of deionized water, and keeping at 75° for two hours; the K value of the obtained polyvinylactam dispersion was 141, the viscosity was 10.3 Pas with solids content of 27.65.

IT 134367-40-1B, hydrolyzed, sodium salt

RL: NUU (Other use, unclassified); USES (Uses)

(anionic dispersant; water-in-water

polyvinylactam dispersions prepared

by radical polymerization in aqueous media containing

anionic polymer dispersants and

saturated with salts)

RN 134367-40-1 HCAPLUS

CN 2-Propenoic acid, polymer with N-ethenylformamide (CA INDEX NAME)

CM 1

CRN 13162-05-5

CMF C3 H5 N O



CM 2

CRN 79-10-7

CMF C3 H4 O2



IT 28133-65-5, Maleic anhydride-methylvinylether
copolymer, sodium salt
RL: NUU (Other use, unclassified); USES (Uses)
(anionic dispersion media; water-in-water
polyvinylactam dispersions prepared
by radical polymerization in aqueous media containing
anionic polymer dispersants and
saturated with salts)
RN 28133-65-5 HCAPLUS
CN 2,5-Furandione, polymer with methoxyethene, sodium salt (CA INDEX
NAME)

CM 1

CRN 9011-16-9

CMF (C4 H2 O3 . C3 H6 O)x

CCI PMS

CM 2

CRN 108-31-6

CMF C4 H2 O3



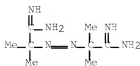
CM 3

CRN 107-25-5

CMF C3 H6 O



IT 2997-92-4, V 50
RL: CAT (Catalyst use); USES (Uses)
(water-in-water polyvinylactam dispersions
prepared by radical polymerization in aqueous media containing
anionic polymer dispersants and
saturated with salts)
RN 2997-92-4 HCAPLUS
CN Propanimidamide, 2,2'-(1,2-diazenediyl)bis[2-methyl-,
hydrochloride (1:2) (CA INDEX NAME)



● 2 HCl

10/591,654-306094-EIC SEARCH

IT 9003-39-8P, N-Vinyl-2-pyrrolidone homopolymer
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (water-in-water polyvinylactam dispersions
 prepared by radical polymerization in aqueous media containing anionic polymer dispersants and saturated with salts)

RN 9003-39-8 HCAPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

CRM 88-12-0

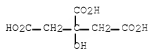
CMF C6 H9 N O



IT 6132-04-3, Trisodium citrate dihydrate
 7757-82-6, Sodium sulfate, uses
 RL: NUU (Other use, unclassified); USES (Uses)
 (water-in-water polyvinylactam dispersions
 prepared by radical polymerization in aqueous media containing anionic polymer dispersants and saturated with salts)

RN 6132-04-3 HCAPLUS

CN 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, sodium salt, hydrate (1:3:2) (CA INDEX NAME)



●3 Na

●2 H2O

RN 7757-82-6 HCAPLUS

CN Sulfuric acid sodium salt (1:2) (CA INDEX NAME)



●2 Na

10/591,654-306094-EIC SEARCH

IC ICM C08F026-10
ICS C08F002-20

CC 37-3 (Plastics Manufacture and Processing)

ST polyvinylactam aq dispersion prepn
salt anionic polymer
dispersant media

IT Lactams
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(N-vinyl, polymers; water-in-water polyvinylactam
dispersions prepared by radical polymer
. in aqueous media containing anionic polymer
dispersants and saturated with salts)

IT Dispersing agents
(anionic; water-in-water polyvinylactam
dispersions prepared by radical polymer
. in aqueous media containing anionic polymer
dispersants and saturated with salts for use in)

IT Disperse systems
(aqueous; water-in-water polyvinylactam
dispersions prepared by radical polymer
. in aqueous media containing anionic polymer
dispersants and saturated with salts)

IT Polymerization
(dispersion, radical; water-in-water
polyvinylactam dispersions prepared
by radical polymerization in aqueous media containing
anionic polymer dispersants and
saturated with salts)

IT Quenching materials
(metalworking; water-in-water polyvinylactam
dispersions prepared by radical polymer
. in aqueous media containing anionic polymer
dispersants and saturated with salts for use in)

IT Salts, uses
RL: NUU (Other use, unclassified); USES (Uses)
(organic and inorg.; water-in-water polyvinylactam
dispersions prepared by radical polymer
. in aqueous media containing anionic polymer
dispersants and saturated with salts)

IT Polymerization catalysts
(radical, dispersion; water-in-water
polyvinylactam dispersions prepared
by radical polymerization in aqueous media containing
anionic polymer dispersants and
saturated with salts)

IT Carboxylic acids, uses
RL: NUU (Other use, unclassified); USES (Uses)
(salts, Cl-Cl5; water-in-water
polyvinylactam dispersions prepared
by radical polymerization in aqueous media containing
anionic polymer dispersants and
saturated with salts)

IT Metalworking
(water-in-water polyvinylactam dispersions
prepared by radical polymerization in aqueous media containing
anionic polymer dispersants and
saturated with salts)

IT Adhesives
Adsorbents
Binders
Coating materials
Coolants
Cosmetics
Detergents
Drugs
Inks

Pigments, nonbiological
 Thickening agents
 (water-in-water polyvinylactam dispersions
 prepared by radical polymerization in aqueous media containing
 anionic polymer dispersants and
 saturated with salts for use in)

IT Plastics, miscellaneous
 RL: MSC (Miscellaneous)
 (water-in-water polyvinylactam dispersions
 prepared by radical polymerization in aqueous media containing
 anionic polymer dispersants and
 saturated with salts for use in)

IT Ceramics
 (water-in-water polyvinylactam dispersions
 prepared by radical polymerization in aqueous media containing
 anionic polymer dispersants and
 saturated with salts for use in in formulations for)

IT 134367-40-1D, hydrolyzed, sodium salt
 RL: NUU (Other use, unclassified); USES (Uses)
 (anionic dispersant; water-in-water
 polyvinylactam dispersions prepared
 by radical polymerization in aqueous media containing
 anionic polymer dispersants and
 saturated with salts)

IT 28133-65-5, Maleic anhydride-methylvinylether
 copolymer, sodium salt
 RL: NUU (Other use, unclassified); USES (Uses)
 (anionic dispersion media; water-in-water
 polyvinylactam dispersions prepared
 by radical polymerization in aqueous media containing
 anionic polymer dispersants and
 saturated with salts)

IT 2997-92-4, V 50
 RL: CAT (Catalyst use); USES (Uses)
 (water-in-water polyvinylactam dispersions
 prepared by radical polymerization in aqueous media containing
 anionic polymer dispersants and
 saturated with salts)

IT 9003-39-8P, N-Vinyl-2-pyrrolidone homopolymer
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical
 or engineered material use); PREP (Preparation); USES (Uses)
 (water-in-water polyvinylactam dispersions
 prepared by radical polymerization in aqueous media containing
 anionic polymer dispersants and
 saturated with salts)

IT 6132-04-3, Trisodium citrate dihydrate
 7757-82-6, Sodium sulfate, uses
 RL: NUU (Other use, unclassified); USES (Uses)
 (water-in-water polyvinylactam dispersions
 prepared by radical polymerization in aqueous media containing
 anionic polymer dispersants and
 saturated with salts)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE
 IN THE RE FORMAT

L137 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2005:459559 HCAPLUS Full-text
 DOCUMENT NUMBER: 143:154192
 TITLE: A method for synthesizing
 anionic or/and nonionic water-soluble
 polymeric dispersions
 INVENTOR(S): Wang, Pixin
 PATENT ASSIGNEE(S): Peop. Rep. China
 SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu,
 No pp. given
 CODEN: CNXXEV

10/591,654-306094-EIC SEARCH

DOCUMENT TYPE: Patent
 LANGUAGE: Chinese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
CN 1519259	A	20040811	CN 2003-127128	2003 0903
			<--	
PRIORITY APPLN. INFO.:			CN 2003-127128	2003 0903
			<--	

ED Entered STN: 31 May 2005
 AB The title dispersion contains 30-100% (meth)acrylamide monomer and 0-70% a monomer represented by a general formula: $R_2CH:CHR_1(AY_1)$, wherein $R_1=H$, CH_3 or $COOCH_3$, $R_2=H$ or $COOY_2$, $A=SO_3$ or $CONHC(CH_3)2CH_2SO_3$, $Y_1, Y_2=H$ or cation. Thus, 17.6 g acrylic acid (60%) was polymerized with 189.1 g acrylamide (50%) in the presence of 18.6 g a acrylamide-N,N-dimethylacrylamide copolymer (20%) and ammonium sulfate, sodium sulfite and ammonium peroxysulfate to give a title dispersion with particle size 5-10 μm .
 IT 9003-39-8, Polyvinylpyrrolidone 26124-23-2, Acrylamide-N-vinylpyrrolidone copolymer
 RL: NUU (Other use, unclassified); USES (Uses)
 (preparation of anionic or/and nonionic water-soluble polymeric dispersions)
 RN 9003-39-8 HCAPLUS
 CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)
 CM 1
 CRN 88-12-0
 CMF C6 H9 N O



RN 26124-23-2 HCAPLUS
 CN 2-Propenamide, polymer with 1-ethenyl-2-pyrrolidinone (CA INDEX NAME)
 CM 1
 CRN 88-12-0
 CMF C6 H9 N O



CM 2

10/591,654-306094-EIC SEARCH

CRN 79-06-1
CMF C3 H5 N O



IT 9003-06-9P, Acrylic acid-acrylamide copolymer
38808-69-4P, Acrylamide-acrylic acid-itaconic acid
copolymer 78474-98-3P, Acrylamide-acrylic
acid-2-acrylamido-2-methylpropanesulfonic acid copolymer
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of anionic or/and nonionic water-soluble
polymeric dispersions)
RN 9003-06-9 HCAPLUS
CN 2-Propenoic acid, polymer with 2-propenamide (CA INDEX NAME)

CM 1

CRN 79-10-7
CMF C3 H4 O2



CM 2

CRN 79-06-1
CMF C3 H5 N O



RN 38808-69-4 HCAPLUS
CN Butanedioic acid, 2-methylene-, polymer with 2-propenamide and
2-propenoic acid (CA INDEX NAME)

CM 1

CRN 97-65-4
CMF C5 H6 O4



CM 2

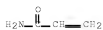
10/591,654-306094-EIC SEARCH

CRN 79-10-7
CMF C3 H4 O2



CM 3

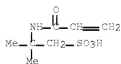
CRN 79-06-1
CMF C3 H5 N O



RN 78474-98-3 HCAPLUS
CN 2-Propenoic acid, polymer with
2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-1-propanesulfonic acid and
2-propenamides (CA INDEX NAME)

CM 1

CRN 15214-89-8
CMF C7 H13 N O4 S



CM 2

CRN 79-10-7
CMF C3 H4 O2



CM 3

CRN 79-06-1
CMF C3 H5 N O



IC ICM C08F002-24
ICS C08F016-04

CC 37-3 (Plastics Manufacture and Processing)

ST acrylamide water soluble polymeric dispersion prepn

IT Polymerization
(dispersion; preparation of anionic
or/and nonionic water-soluble polymeric dispersions)

IT Dispersing agents
Dispersion (of materials)
(preparation of anionic or/and nonionic water-soluble
polymeric dispersions)

IT Polyoxoalkylenes, uses
RL: NUU (Other use, unclassified); USES (Uses)
(preparation of anionic or/and nonionic water-soluble
polymeric dispersions)

IT Polymers, preparation
RL: SPN (Synthetic preparation); PREP (Preparation)
(water-soluble; preparation of anionic or/and nonionic
water-soluble polymeric dispersions)

IT 30973-80-9, Acrylamide-N,N-dimethylacrylamide copolymer
RL: NUU (Other use, unclassified); USES (Uses)
(dispersing agent; preparation of
anionic or/and nonionic water-soluble polymeric
dispersions)

IT 7727-54-0, Ammonium peroxydisulfate 7757-83-7, Sodium sulfite
RL: CAT (Catalyst use); USES (Uses)
(preparation of anionic or/and nonionic water-soluble
polymeric dispersions)

IT 57-55-6, Propylene glycol, uses 107-21-1, Ethylene glycol, uses
115-77-5, Pentaerythritol, uses 9002-89-5, Poly(vinyl alcohol)
9003-39-8, Polyvinylpyrrolidone 25322-68-3, Polyethylene
glycol 26124-23-2, Acrylamide-N-vinylpyrrolidone
copolymer 53694-15-8, Polyethylene glycol sorbitol ether
RL: NUU (Other use, unclassified); USES (Uses)
(preparation of anionic or/and nonionic water-soluble
polymeric dispersions)

IT 9003-05-8P, Polyacrylamide 9003-06-9P, Acrylic
acid-acrylamide copolymer 38808-69-4P,
Acrylamide-acrylic acid-itaconic acid copolymer
78474-98-3P, Acrylamide-acrylic
acid-2-acrylamido-2-methylpropanesulfonic acid copolymer
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of anionic or/and nonionic water-soluble
polymeric dispersions)

L137 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2009 ACS on STM

ACCESSION NUMBER: 2003:257907 HCAPLUS Full-text

DOCUMENT NUMBER: 138:256010

TITLE: Dispersions of inorganic
particle-containing water-soluble polymer
particles with good dispersion
stability and their manufacture

INVENTOR(S): Kubota, Isamu; Wakatsuki, Shogo

PATENT ASSIGNEE(S): Hymo Corporation, Japan

SOURCE: Jpn. Kokai Tokyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

10/591,654-306094-EIC SEARCH

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003096112	A	20030403	JP 2001-292765	2001 0926
			<--	
PRIORITY APPLN. INFO.:			JP 2001-292765	2001 0926
			<--	

ED Entered STN: 03 Apr 2003

AB Title dispersions with particle size $\leq 100 \mu\text{m}$, useful as additives for waste water treatment, papermaking, etc., are manufactured by dispersion polymerization of HCR2:CR1AY1 (R1 = H, Me, CO2Me; A = SO3, C6H4SO3, CONHMe2CH2SO3, C6H4CO2, CO2; R2 = H, CO2Y2; Y1, Y2 = H, cation) 0-100, (meth)acrylamide 0-100, and polymerizable nonionic monomers 0-30 mol% in aqueous salts in the presence of inorg. particles and polymer dispersants soluble in the solns. Thus, partially neutralized acrylic acid was polymerized with acrylamide in aqueous (NH4)2SO4 in the presence of bentonite and partially neutralized acrylamido-2-methylpropanesulfonic acid polymer to give a dispersion with particle size 2-20 μm , viscosity 610 mPa-s, and good stability when stored for 3 mo.

IT 9003-39-8, Poly(N-vinylpyrrolidone)
 RL: NUU (Other use, unclassified); USES (Uses)
 (dispersant; manufacture of stable dispersions by dispersion polymerization of anionic acrylic monomers in aqueous salts in presence of inorg. particles and polymer dispersants)

RN 9003-39-8 HCAPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



IT 9003-06-9F, Acrylamide-acrylic acid copolymer
 62649-23-4P, Acrylamide-acrylic acid-sodium acrylate copolymer 494852-63-0P, Acrylamide-acrylic acid-itaconic acid-sodium acrylate-sodium itaconate copolymer
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (manufacture of stable dispersions by dispersion polymerization of anionic acrylic monomers in aqueous salts in presence of inorg. particles and polymer dispersants)

RN 9003-06-9 HCAPLUS

CN 2-Propenoic acid, polymer with 2-propenamide (CA INDEX NAME)

CM 1

CRN 79-10-7

CMF C3 H4 O2



CM 2

CRN 79-06-1
CMF C3 H5 N O



RN 62649-23-4 HCAPLUS

CN 2-Propenoic acid, polymer with 2-propenamide and sodium
2-propenoate (1:1) (CA INDEX NAME)

CM 1

CRN 7446-81-3
CMF C3 H4 O2 . Na



● Na

CM 2

CRN 79-10-7
CMF C3 H4 O2



CM 3

CRN 79-06-1
CMF C3 H5 N O



RN 494852-63-0 HCAPLUS

10/591,654-306094-EIC SEARCH

CN Butanedioic acid, methylene-, polymer with 2-propenamide,
2-propenoic acid, sodium methylenebutanedioate and sodium
2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRM 50976-31-3

CMF C5 H6 O4 . x Na



CM 2

CRM 7446-81-3

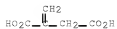
CMF C3 H4 O2 . Na



CM 3

CRM 97-65-4

CMF C5 H6 O4



CM 4

CRM 79-10-7

CMF C3 H4 O2



CM 5

CRM 79-06-1

CMF C3 H5 N O



IT 7757-82-6, Sodium sulfate, uses 7783-20-2,
 Ammonium sulfate, uses
 RL: NUU (Other use, unclassified); USES (Uses)
 (manufacture of stable dispersions by
 dispersion polymerization of anionic
 acrylic monomers in aqueous salts in presence of inorg.
 particles and polymer dispersants)
 RN 7757-82-6 HCAPLUS
 CN Sulfuric acid sodium salt (1:2) (CA INDEX NAME)



● Na

RN 7783-20-2 HCAPLUS
 CN Sulfuric acid ammonium salt (1:2) (CA INDEX NAME)



● NH3

IC ICM C08F002-44
 ICS C08F002-16; C08F292-00
 CC 37-3 (Plastics Manufacture and Processing)
 ST dispersion inorg particle anionic
 polymer; salt water dispersion
 polymer inorg particle; acrylate acrylamide copolymer
 manuf bentonite ammonium sulfate; dispersant
 acrylamidomethylpropanesulfonic acid polymer dispersion
 polymer
 IT Polymerization
 (dispersion; manufacture of stable
 dispersions by dispersion polymerization
 of anionic acrylic monomers in aqueous salts in
 presence of inorg. particles and polymer dispersants)
 IT Polymerization
 (graft; manufacture of stable dispersions by
 dispersion polymerization of anionic
 acrylic monomers in aqueous salts in presence of inorg.
 particles and polymer dispersants)
 IT Disperse systems
 Dispersing agents

- (manufacture of stable dispersions by dispersion polymerization of anionic acrylic monomers in aqueous salts in presence of inorg. particles and polymer dispersants)
- IT Salts, uses
 RL: NUU (Other use, unclassified); USES (Uses)
 (manufacture of stable dispersions by dispersion polymerization of anionic acrylic monomers in aqueous salts in presence of inorg. particles and polymer dispersants)
- IT Bentonite, preparation
 Kaolin, preparation
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (polymers, graft; manufacture of stable dispersions by dispersion polymerization of anionic acrylic monomers in aqueous salts in presence of inorg. particles and polymer dispersants)
- IT 9003-39-8, Poly(N-vinylpyrrolidone) 26062-79-3,
 Poly(dimethyldiallylammonium chloride) 38599-26-7D, neutralized
 54076-97-0, Poly(acryloyloxyethyltrimethylammonium chloride)
 RL: NUU (Other use, unclassified); USES (Uses)
 (dispersant; manufacture of stable dispersions by dispersion polymerization of anionic acrylic monomers in aqueous salts in presence of inorg. particles and polymer dispersants)
- IT 9003-05-8P, Polyacrylamide 9003-06-9P,
 Acrylamide-acrylic acid copolymer 62649-23-4P
 , Acrylamide-acrylic acid-sodium acrylate copolymer
 494852-63-0P, Acrylamide-acrylic acid-itaconic acid-sodium
 acrylate-sodium itaconate copolymer
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (manufacture of stable dispersions by dispersion polymerization of anionic acrylic monomers in aqueous salts in presence of inorg. particles and polymer dispersants)
- IT 7757-82-6, Sodium sulfate, uses 7783-20-2,
 Ammonium sulfate, uses
 RL: NUU (Other use, unclassified); USES (Uses)
 (manufacture of stable dispersions by dispersion polymerization of anionic acrylic monomers in aqueous salts in presence of inorg. particles and polymer dispersants)
- IT 7631-86-9, White carbon, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (manufacture of stable dispersions by dispersion polymerization of anionic acrylic monomers in aqueous salts in presence of inorg. particles and polymer dispersants)

L137 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2002:792296 HCAPLUS Full-text
 DOCUMENT NUMBER: 137:295672
 TITLE: Stable anionic water-soluble
 polymer dispersions and
 their manufacture by
 dispersion polymerization
 INVENTOR(S): Wang, Pi-Xin
 PATENT ASSIGNEE(S): Hymo Corporation, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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10/591,654-306094-EIC SEARCH

JP 2002302521

A

20021018

JP 2001-158249

2001
0528

PRIORITY APPLN. INFO.:

JP 2001-21304

A

2001
0130

ED Entered STN: 18 Oct 2002

AB The dispersions with polymer particle size $\leq 100 \mu\text{m}$, useful for flocculants, are manufactured by dispersion-polymerizing monomer mixts., which comprise (A) $\text{CH}_2\text{CR1AX}$ ($\text{R1} = \text{Me}$, H ; $\text{A} = \text{SO}_3$, $\text{C}_6\text{H}_4\text{SO}_3$, $\text{CONHCMe}_2\text{CH}_2\text{SO}_3$, $\text{CONHC}_2\text{H}_4\text{SO}_3$, $\text{CO}_2\text{C}_2\text{H}_4\text{SO}_3$; $\text{X} = \text{cation}$) 1-30, (B) CHR3:CR2AY ($\text{R2} = \text{H}$, Me , carboxyl; $\text{R3} = \text{H}$, carboxyl; $\text{A} = \text{CO}_2$, $\text{C}_6\text{H}_4\text{CO}_2$; $\text{Y} = \text{cation}$) 5-50, (C) (meth)acrylamide 20-94, and (D) other nonionic comonomers 0-20 mol%, in aqueous salt solns. in the presence of polymer dispersants soluble to the salt solns. Thus, partially neutralizing a monomer mixture comprising acrylamide, 2-acrylamido-2-methylpropanesulfonic acid, and acrylic acid with NaOH and dispersion-polymerizing the monomers in the presence of 2-acrylamido-2-methylpropanesulfonic acid-methacrylic acid copolymer gave a dispersion showing particle size 5-50 μm , viscosity 830 $\text{mPa}\cdot\text{s}$, and Mw 1.05×10^7 .

IT 9003-39-8, Polyvinyl pyrrolidone 76404-20-1,
2-Acrylamido-2-methylpropanesulfonic acid-methacrylic acid
copolymer
RL: HUU (Other use, unclassified); USES (Uses)
(dispersants; manufacture of stable
anionic water-soluble polymer
dispersions by dispersion polymerization)

RN 9003-39-8 HCAPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



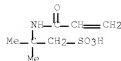
RN 76404-20-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with
2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-1-propanesulfonic acid
(CA INDEX NAME)

CM 1

CRN 15214-89-8

CMF C7 H13 N O4 S



CM 2

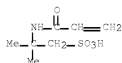
CRN 79-41-4
CMF C4 H6 O2

IT 468721-70-2P, Acrylamide-2-acrylamido-2-methylpropanesulfonic acid-acrylic acid-sodium 2-acrylamido-2-methylpropanesulfonate-sodium acrylate copolymer
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (manufacture of stable anionic water-soluble polymer dispersions by dispersion polymerization)

RN 468721-70-2 HCAPLUS

CN 2-Propenoic acid, polymer with
 2-methyl-2-[(1-oxo-2-propenyl)aminol-1-propanesulfonic acid,
 2-methyl-2-[(1-oxo-2-propenyl)aminol-1-propanesulfonic acid
 monosodium salt, 2-propenamide and sodium 2-propenoate (9CI) (CA
 INDEX NAME)

CM 1

CRN 15214-89-8
CMF C7 H13 N O4 S

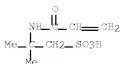
CM 2

CRN 7446-81-3
CMF C3 H4 O2 . Na

● Na

CM 3

CRN 5165-97-9
CMF C7 H13 N O4 S . Na



CM 4

CRN 79-10-7
CMF C3 H4 O2



CM 5

CRN 79-06-1
CMF C3 H5 N O



IC ICM C08F220-56
ICS B01D021-01; B01J013-00; C08F002-10
CC 37-6 (Plastics Manufacture and Processing)
ST anionic aq dispersion manuf acrylic
sulfonate; acrylamide acrylic polymer dispersion
polymer flocculant
IT Dispersing agents
(anionic, polymeric; manufacture of
stable anionic water-soluble polymer
dispersions by dispersion polymerization)
IT Polymerization
(dispersion; manufacture of stable
anionic water-soluble polymer
dispersions by dispersion polymerization)
IT Disperse systems
(manufacture of stable anionic water-soluble
polymer dispersions by dispersion
polymerization)
IT 9G03-39-8, Polyvinyl pyrrolidone 76404-20-1,
2-Acrylamido-2-methylpropanesulfonic acid-methacrylic acid
copolymer
RL: NUU (Other use, unclassified); USES (Uses)
(dispersants; manufacture of stable
anionic water-soluble polymer
dispersions by dispersion polymerization)
IT 468721-70-2P, Acrylamide-2-acrylamido-2-

10/591,654-306094-EIC SEARCH

methylpropanesulfonic acid-acrylic acid-sodium
 2-acrylamido-2-methylpropanesulfonate-sodium acrylate
 copolymer
 RL: IMF (Industrial manufacture); TEM (Technical or engineered
 material use); PREP (Preparation); USES (Uses)
 (manufacture of stable anionic water-soluble
 polymer dispersions by dispersion
 polymerization)

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE
 THIS RECORD (2 CITINGS)

L137 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1997:402901 HCAPLUS Full-text
 DOCUMENT NUMBER: 127:18413
 ORIGINAL REFERENCE NO.: 127:3717a,3720a
 TITLE: Preparing polymer powders which are
 redispersible in aqueous media
 INVENTOR(S): Pakusch, Joachim; Dieing, Reinhold; Tropsch,
 Juergen
 PATENT ASSIGNEE(S): BASF A.-G., Germany
 SOURCE: Eur. Pat. Appl., 23 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 770640	A2	19970502	EP 1996-116679	1996 1017
			<--	
EP 770640	A3	19971029		
EP 770640	B1	20030423		
R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, NL, PT, SE				
DE 19540305	A1	19970430	DE 1995-19540305	1995 1028
			<--	
AT 238376	T	20030515	AT 1996-116679	1996 1017
			<--	
CA 2188685	A1	19970429	CA 1996-2188685	1996 1023
			<--	
US 5874524	A	19990223	US 1996-731989	1996 1023
			<--	
AU 9670406	A	19970501	AU 1996-70406	1996 1025
			<--	
SG 81903	A1	20010724	SG 1996-10967	1996 1025
			<--	
JP 09169812	A	19970630	JP 1996-285586	1996 1028
			<--	
CN 1153181	A	19970702	CN 1996-122881	

10/591,654-306094-EIC SEARCH

1996
1028

PRIORITY APPLN. INFO.:

DE 1995-19540305 A

1995
1028

ED Entered STN: 30 Jun 1997

AB Polymer powders which disperse in aqueous media so that the dispersed particles have pos. or neg. surface elec. charges are manufactured by spray-drying mixts. dispersions of the polymers such as those of (meth)acrylate esters, styrene, and vinyl compds. and polyelectrolytes which act as drying aids and are composed of polyions that have elec. charges different than that on the surfaces of the dispersed polymer particles. These powders are useful as hydraulic binder additives, paints, varnishes, adhesives, paper coatings, and synthetic resin plaster. A typical spray-dried composition contained anionically stabilized dispersion of 11.2:219.2:5.6:252 acrylamide-Bu acrylate-methacrylamide-styrene copolymer and 15% 120:280 3-methyl-1-vinylimidazolium Me sulfate-vinylpyrrolidone copolymer.

IT 95144-24-4F, 3-Methyl-1-vinylimidazolium chloride-N-vinylpyrrolidone copolymer 131954-48-8F, Trimethylammonioethylmethacrylamide chloride-N-vinylpyrrolidone copolymer 150599-70-5P, 3-Methyl-1-vinylimidazolium methyl sulfate-N-vinylpyrrolidone copolymer 174761-16-1P
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
 (preparing polymer powders containing polyelectrolytes which are redispersible in aqueous media)

RN 95144-24-4 HCAPLUS

CN 1H-Imidazolium, 1-ethenyl-3-methyl-, chloride (1:1), polymer with 1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

CRN 13474-25-4

CMF C6 H9 N2 . Cl

● Cl⁻

CM 2

CRN 88-12-0

CMF C6 H9 N O



RN 131954-48-8 HCAPLUS

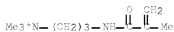
10/591,654-306094-EIC SEARCH

CN 1-Propanaminium, N,N,N-trimethyl-3-[(2-methyl-1-oxo-2-propen-1-yl)amino]-, chloride (1:1), polymer with 1-ethenyl-2-pyrrolidinone
(CA INDEX NAME)

CM 1

CRN 51410-72-1

CMF C10 H21 N2 O . C1



CM 2

CRN 88-12-0

CMF C6 H9 N O



RN 150599-70-5 HCAPLUS

CN 1H-Imidazolium, 1-ethenyl-3-methyl-, methyl sulfate (1:1), polymer with 1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



CM 2

CRN 26591-72-0

CMF C6 H9 N2 . C H3 O4 S

CM 3

CRN 45534-45-0

CMF C6 H9 N2



CM 4

CRN 21228-90-0

CMF C H3 O4 S



RN 174761-16-1 HCAPLUS

CN 1H-Imidazolium, 1-ethenyl-3-methyl-, methyl sulfate (1:1), polymer
with 1-ethenylhexahydro-2H-azepin-2-one and
1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

CRN 2235-00-9

CMF C8 H13 N O



CM 2

CRN 88-12-0

CMF C6 H9 N O



CM 3

CRN 26591-72-0

CMF C6 H9 N2 . C H3 O4 S

CM 4

CRN 45534-45-0

CMF C6 H9 N2



CM 5

CRN 21228-90-0

CMF C H3 O4 S



IT 25036-16-2P, Butyl acrylate-methacrylic acid-styrene
copolymer 25586-24-7P 27358-58-3P
34407-02-8P, Butyl acrylate-hydroxyethyl
acrylate-methacrylic acid-styrene copolymer
RL: IMF (Industrial manufacture); POF (Polymer in formulation);
PREP (Preparation); USES (Uses)
(preparing polymer powders containing polyelectrolytes which
are redispersible in aqueous media)

RN 25036-16-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate and
ethenylbenzene (CA INDEX NAME)

CM 1

CRN 141-32-2

CMF C7 H12 O2



CM 2

CRN 100-42-5

CMF C8 H8



CM 3

CRN 79-41-4

CMF C4 H6 O2

10/591,654-306094-EIC SEARCH



RN 25586-24-7 HCAPLUS
 CN 2-Propenoic acid, polymer with butyl 2-propenoate, ethenylbenzene
 and 2-propenamide (CA INDEX NAME)
 CM 1
 CRN 141-32-2
 CMF C7 H12 O2



CM 2
 CRN 100-42-5
 CMF C8 H8



CM 3
 CRN 79-10-7
 CMF C3 H4 O2



CM 4
 CRN 79-06-1
 CMF C3 H5 N O

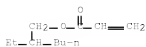


RN 27358-58-3 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, polymer with ethenylbenzene,
 2-ethylhexyl 2-propenoate and 2-propenamide (CA INDEX NAME)

10/591,654-306094-EIC SEARCH

CM 1

CRN 103-11-7
CMF C11 H20 O2



CM 2

CRN 100-42-5
CMF C8 H8



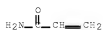
CM 3

CRN 79-41-4
CMF C4 H6 O2



CM 4

CRN 79-06-1
CMF C3 H5 N O



RN 34407-02-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene and 2-hydroxyethyl 2-propenoate (CA INDEX NAME)

CM 1

CRN 818-61-1
CMF C5 H8 O3



CM 2

CRN 141-32-2
CMF C7 H12 O2

CM 3

CRN 100-42-5
CMF C8 H8

CM 4

CRN 79-41-4
CMF C4 H6 O2

IC ICM C08J003-16

CC 37-6 (Plastics Manufacture and Processing)
Section cross-reference(s): 38, 42, 43, 58

IT Polyelectrolytes

RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
PREP (Preparation); USES (Uses)(preparing polymer powders containing polyelectrolytes which
are redispersible in aqueous media)

IT Adhesives

(preparing polymer powders containing polyelectrolytes which
are redispersible in aqueous media for adhesives)

IT Cement (construction material)

(preparing polymer powders containing polyelectrolytes which
are redispersible in aqueous media for hydraulic binder additives)

IT Paints

(preparing polymer powders containing polyelectrolytes which
are redispersible in aqueous media for paints)

IT Coating materials

Paper

(preparing polymer powders containing polyelectrolytes which
are redispersible in aqueous media for paper coatings)

IT Plaster

(preparing polymer powders containing polyelectrolytes which
are redispersible in aqueous media for synthetic resin plaster)

IT Varnishes

(preparing polymer powders containing polyelectrolytes which

10/591,654-306094-EIC SEARCH

are redispersible in aqueous media for varnishes)

IT 95144-24-4P, 3-Methyl-1-vinylimidazolium chloride-N-vinylpyrrolidone copolymer 131954-48-8P, Trimethylammonioisopropylmethacrylamide chloride-N-vinylpyrrolidone copolymer 150599-70-5P, 3-Methyl-1-vinylimidazolium methyl sulfate-N-vinylpyrrolidone copolymer 174761-16-1P
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
 (preparing polymer powders containing polyelectrolytes which are redispersible in aqueous media)

IT 25036-16-2P, Butyl acrylate-methacrylic acid-styrene copolymer 25085-44-3P, Butyl acrylate-methacrylamide-styrene copolymer 25586-24-7P 27358-58-3P 34497-02-8P, Butyl acrylate-hydroxyethyl acrylate-methacrylic acid-styrene copolymer 133651-90-8P, Acrylamide-butyl acrylate-methacrylamide-styrene copolymer
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PREP (Preparation); USES (Uses)
 (preparing polymer powders containing polyelectrolytes which are redispersible in aqueous media)

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L137 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2009 ACS ON STN

ACCESSION NUMBER: 1996:392113 HCAPLUS Full-text

DOCUMENT NUMBER: 125:116178

ORIGINAL REFERENCE NO.: 125:21816h,21817a

TITLE: Anionic electrodepositable coating composition for pigment-dispersed color filter

INVENTOR(S): Niu, Chao-Wen; Shieh, Jim-Chyuan; Hsieh, Pao J.; Lin, Wen R.; Lin, Hsien K.

PATENT ASSIGNEE(S): Industrial Technology Research Institute, Taiwan; Nan Ya Plastics Corp.

SOURCE: U.S., 14 pp.
 CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5523340	A	19960604	US 1995-376999	1995 0123
			<--	
PRIORITY APPLN. INFO.:			US 1995-376999	1995 0123
			<--	
ED Entered STN: 09 Jul 1996				
GI				



II

AB An anionic electrodepositable coating composition for making pigment dispersed color filters comprising: (a) a pigment; (b) a first addition copolymer containing

10/591,654-306094-EIC SEARCH

pyrrolidone and hydroxy groups; (c) a second addition copolymer containing carboxyl and hydroxy groups; and (d) a low mol. weight amine. The pyrrolidone-containing monomer can be N-vinyl-2-pyrrolidone (I) or a pyrrolidone-containing acrylate-based monomer II (R = H, Me, or Et, n = 1-3). The first addition copolymer has a weight average mol. weight between 1,000 and 20,000 and is prepared from a monomer composition comprising about 0.5-90 mol percent of a pyrrolidone-containing unsatd. monomer and about 1-50 mol percent of a hydroxy-containing unsatd. monomer. The second addition copolymer has a weight average mol. weight between 5,000 and 60,000 and is prepared from a monomer composition comprising about 5-30 mol percent of a carboxyl-containing unsatd. monomer and 1-50 mol percent of a hydroxy-containing unsatd. monomer. The pigments in the coating composition were measured to have a weight average secondary particle size of less than 0.25 μm , and a polydispersity of less than 1.05. A typical 10% solids aqueous electrodepositable composition was prepd. from a composition containing 14.4:25.6:46.4:20 acrylic acid-Bu acrylate (III)-2-hydroxyethyl acrylate (IV)-Me methacrylate (V) copolymer 27, 25.6:23.2:10:55.5 III-IV-V-I copolymer 3, Cymel 303 5, MEK 10, Cromophthal Red A3B 5, and Et3N 0.28 g.

IT 26062-01-1P, Acrylic acid-butyl acrylate-2-hydroxyethyl

acrylate-methyl methacrylate copolymer 69896-39-5P

179526-82-0P 179526-86-4P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP

(Preparation); RACT (Reactant or reagent)

(crosslinkable binder precursor; anionic

electrodepositable compns. containing pyrrolidone polymers

for manufacture of pigment-dispersed color

filters)

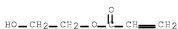
RN 26062-01-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl
2-propenoate, 2-hydroxyethyl 2-propenoate and 2-propenoic acid
(CA INDEX NAME)

CM 1

CRN 818-61-1

CMF C5 H8 O3



CM 2

CRN 141-32-2

CMF C7 H12 O2



CM 3

CRN 80-62-6

CMF C5 H8 O2



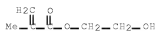
CM 4

CRN 79-10-7
CMF C3 H4 O2

RN 69896-39-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate,
2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate
and methyl 2-propenoate (SCI) (CA INDEX NAME)

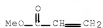
CM 1

CRN 868-77-9
CMF C6 H10 O3

CM 2

CRN 141-32-2
CMF C7 H12 O2

CM 3

CRN 96-33-3
CMF C4 H6 O2

CM 4

CRN 80-62-6
CMF C5 H8 O2



CM 5

CRN 79-41-4
CMF C4 H6 O2

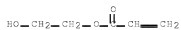


RN 179526-82-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl
2-propenoate, 1-ethenyl-2-pyrrolidinone and 2-hydroxyethyl
2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 818-61-1
CMF C5 H8 O3



CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

CRN 88-12-0
CMF C6 H9 N O



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CM 4

CRM 80-62-6
CMF C5 H8 O2

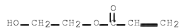


RN 179526-86-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl
2-propenoate, 1-ethenyl-2-pyrrolidinone, 2-hydroxyethyl
2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRM 818-61-1
CMF C5 H8 O3



CM 2

CRM 141-32-2
CMF C7 H12 O2



CM 3

CRM 88-12-0
CMF C6 H9 N O



CM 4

CRM 80-62-6
CMF C5 H8 O2



CM 5

CRN 79-10-7
CMF C3 H4 O2



IT 179526-84-2P 179526-87-5P
179526-88-6P 179526-89-7P
RL: DEV (Device component use); IMF (Industrial manufacture); PRP
(Properties); PREP (Preparation); USES (Uses)
(cured film; anionic electrodepositable comps.
containing pyrrolidone polymers for manufacture of
pigment-dispersed color filters)
RN 179526-84-2 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl
2-propenoate, 1-ethenyl-2-pyrrolidinone, formaldehyde,
2-hydroxyethyl 2-propenoate, 2-propenoic acid and
1,3,5-triazine-2,4,6-triamine (9CI) (CA INDEX NAME)

CM 1

CRN 818-61-1
CMF C5 H8 O3



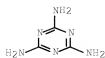
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

CRN 108-78-1
CMF C3 H6 N6



CM 4

CRN 88-12-0

CMF C6 H9 N O



CM 5

CRN 80-62-6

CMF C5 H8 O2



CM 6

CRN 79-10-7

CMF C3 H4 O2



CM 7

CRN 50-00-0

CMF C H2 O



RN 179526-87-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate,
 1-ethenyl-2-pyrrolidinone, formaldehyde, 2-hydroxyethyl
 2-methyl-2-propenoate, 2-hydroxyethyl 2-propenoate, methyl

10/591,654-306094-EIC SEARCH

2-methyl-2-propenoate, methyl 2-propenoate and
1,3,5-triazine-2,4,6-triamine (9CI) (CA INDEX NAME)

CM 1

CRM 868-77-9

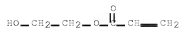
CMF C6 H10 O3



CM 2

CRM 818-61-1

CMF C5 H8 O3



CM 3

CRM 141-32-2

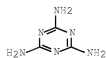
CMF C7 H12 O2



CM 4

CRM 108-78-1

CMF C3 H6 N6



CM 5

CRM 96-33-3

CMF C4 H6 O2



CM 6

CRM 88-12-0

CMF C6 H9 N O



CM 7

CRM 80-62-6

CMF C5 H8 O2



CM 8

CRM 79-41-4

CMF C4 H6 O2



CM 9

CRM 50-00-0

CMF C H2 O



RN 179526-88-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate,
1-ethenyl-2-pyrrolidinone, formaldehyde, 2-hydroxyethyl
2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, methyl
2-propenoate and 1,3,5-triazine-2,4,6-triamine (9CI) (CA INDEX
NAME)

CM 1

CRM 868-77-9

CMF C6 H10 O3



CM 2

CRM 141-32-2

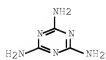
CMF C7 H12 O2



CM 3

CRM 108-78-1

CMF C3 H6 N6



CM 4

CRM 96-33-3

CMF C4 H6 O2



CM 5

CRM 88-12-0

CMF C6 H9 N O



CM 6

CRM 80-62-6

CMF C5 H8 O2



CM 7

CRM 79-41-4

CMF C4 H6 O2



CM 8

CRM 50-00-0

CMF C H2 O



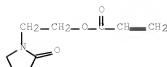
RN 179526-89-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, formaldehyde, 2-hydroxyethyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-propenoate, methyl 2-methyl-2-propenoate, methyl 2-propenoate, 2-(2-oxo-1-pyrrolidinyl)ethyl 2-propenoate and 1,3,5-triazine-2,4,6-triamine (9CI) (CA INDEX NAME)

CM 1

CRM 3541-31-9

CMF C9 H13 N O3



CM 2

CRM 868-77-9

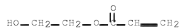
CMF C6 H10 O3



CM 3

CRM 818-61-1

CMF C5 H8 O3



CM 4

CRM 141-32-2

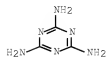
CMF C7 H12 O2



CM 5

CRM 108-78-1

CMF C3 H6 N6



CM 6

CRM 96-33-3

CMF C4 H6 O2



CM 7

CRN 80-62-6

CMF C5 H8 O2



CM 8

CRN 79-41-4

CMF C4 H6 O2



CM 9

CRN 50-00-0

CMF C H2 O



IC ICM C08K005-34

ICS C08K003-00; C08L039-06

INCL 524088000

CC 37-3 (Plastics Manufacture and Processing)

Section cross-reference(s): 73

IT Optical filters

Optical materials

Pigments

(anionic electrodepositable compns. containing
pyrrolidone polymers for manufacture of pigment-
dispersed color filters)

IT 121-44-8, uses

RL: MOA (Modifier or additive use); TEM (Technical or engineered
material use); USES (Uses)

(binder solubilizer; anionic electrodepositable
compns. containing pyrrolidone polymers for manuf
of pigment-dispersed color filters)

IT 26062-01-1P, Acrylic acid-butyl acrylate-2-hydroxyethyl
acrylate-methyl methacrylate copolymer 69896-39-5P

179526-82-0P 179526-83-1P 179526-85-3P

179526-86-4P

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RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) (crosslinkable binder precursor; anionic electrodepositable compns. containing pyrrolidone polymers for manufacture of pigment-dispersed color filters)

IT 179526-84-2P 179526-87-5P
179526-88-5P 179526-89-7P
RL: DEV (Device component use); IMF (Industrial manufacture); PRP (Properties); PREP (Preparation); USES (Uses) (cured film; anionic electrodepositable compns. containing pyrrolidone polymers for manufacture of pigment-dispersed color filters)

IT 147-14-8, Heliogen Blue K 7090 4051-63-2, Cromophtal Red A 3B
179671-47-7, Heliogen Green K 8683
RL: DEV (Device component use); USES (Uses) (pigment; anionic electrodepositable compns. containing pyrrolidone polymers for manufacture of pigment-dispersed color filters)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L137 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2009 ACS ON STN

ACCESSION NUMBER: 1990:159842 HCAPLUS Full-text
DOCUMENT NUMBER: 112:159842
ORIGINAL REFERENCE NO.: 112:27023a,27026a
TITLE: Preparation of stable aqueous suspensions of water-soluble polymers in presence of ammonium salts
INVENTOR(S): Burdick, Charles L.
PATENT ASSIGNEE(S): Aqualon Co., USA
SOURCE: U.S., 9 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4883536	A	19891128	US 1988-229379	1988 0805
			<--	
CA 1340137	C	19981117	CA 1989-607286	1989 0802
			<--	
EP 357962	A2	19900314	EP 1989-114358	1989 0803
			<--	
EP 357962	A3	19910123		
EP 357962	B1	19941012		
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
ES 2063792	T3	19950116	ES 1989-114358	1989 0803
			<--	
AU 8939329	A	19900208	AU 1989-39329	1989 0804
			<--	
AU 614169	B2	19910822		
JP 02099574	A	19900411	JP 1989-203712	

1989
0805JP 3110428
US 5028263B2 20001120
A 19910702

US 1989-396265

1989
0821

PRIORITY APPLN. INFO.:

US 1988-229379

A

1988
0805

ED Entered STN: 28 Apr 1990

AB The title suspensions, permitting ease of handling and dosage control, contain $\geq 20\%$ anionic or nonionic water-soluble polymer and are prepared by dispersing the polymer in an aqueous solution of an ammonium salt having a multivalent anion, the ammonium salt/water ratio being ≥ 0.15 . A solution of 22.5 parts $(\text{NH}_4)_2\text{HPO}_4$ in 52.5 parts H_2O was mixed with 25 parts Natrosol 250GR (hydroxyethyl cellulose) to give a suspension which was stable and pourable for > 3 days.

IT 9003-39-8, Poly(vinylpyrrolidone)

RL: USES (Uses)

(aqueous suspensions of, preparation of stable, ammonium salts for)

RN 9003-39-8 HCAPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



RL: USES (Uses)

(suspensions of, in aq. ammonium salt solns., stable)

IC ICM C08L001-08

ICS C08K003-00

INCL 106194000

CC 37-6 (Plastics Manufacture and Processing)

Section cross-reference(s): 43

ST suspension aq polymer ammonium salt;

hydroxyethyl cellulose aq suspension stability;

dispersion aq polymer ammonium salt

IT Dispersing agents

(ammonium salts, for polymers in aqueous suspensions)

IT Suspensions

(of water-soluble polymers in aqueous ammonium salt solns., stable)

IT Polymers, uses and miscellaneous

RL: USES (Uses)

(suspensions of water-soluble, in aqueous ammonium salt solns., stable)

IT Polyamides, uses and miscellaneous

RL: USES (Uses)

(suspensions of, in aqueous ammonium salt solns., stable)

IT Polyphosphoric acids

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RL: PREP (Preparation)
(ammonium salts, dispersions of water-soluble polymers in aqueous, preparation of stable)

IT 9000-30-0, Guar 9002-89-5, Poly(vinyl alcohol) 9003-05-8, Polyacrylamide 9003-39-8, Poly(vinylpyrrolidone) 9004-30-2, Carboxymethyl hydroxyethyl cellulose 9004-32-4, Carboxymethyl cellulose 9004-62-0, Hydroxyethyl cellulose 9004-64-2, Hydroxypropyl cellulose 9004-65-3, Methylhydroxypropyl cellulose 9032-42-2, Methylhydroxyethyl cellulose 11138-66-2, Xanthan gum 25322-68-3 39421-75-5, Hydroxypropyl guar 51331-09-0, Hydroxyethyl hydroxypropyl cellulose 120146-45-4

RL: USES (Uses)
(aqueous suspensions of, preparation of stable, ammonium salts for)

IT 7783-20-2, Diammonium sulfate, uses and miscellaneous 7783-28-0, Diammonium phosphate

RL: USES (Uses)
(dispersions of water-soluble polymers in aqueous, preparation of stable)

IT 7631-86-9, Silica, uses and miscellaneous

RL: USES (Uses)
(stabilizers, for aqueous polymer suspensions)

IT 79-06-1D, 2-Propenamide, polymers

RL: USES (Uses)
(suspensions of, in aqueous ammonium salt solns., preparation of stable)

IT 9003-39-8, Poly(vinylpyrrolidone) 9005-25-8, Starch, uses and miscellaneous

RL: USES (Uses)
(suspensions of, in aqueous ammonium salt solns., stable)

OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITINGS)

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L137 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2009 ACS ON STN

ACCESSION NUMBER: 1983:523532 HCAPLUS Full-text

DOCUMENT NUMBER: 99:123532

ORIGINAL REFERENCE NO.: 99:19037a,19040a

TITLE: Spherical anion exchanger beads

PATENT ASSIGNEE(S): Nippon Kayaku Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
JP 58037017	A	19830304	JP 1981-134033	1981 0828
			<--	
JP 02041528	B	19900918		
PRIORITY APPLN. INFO.:			JP 1981-134033	1981 0828
			<--	

ED Entered STN: 12 May 1984

AB Spherical anion exchanger beads are prepared by polymerizing aqueous solns. of dialkyldiallylammonium chloride and compds. having ≥ 2 diallylammonium groups or ≥ 2

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vinylbenzylammonium groups dispersed in hydrophobic solvents in the presence of polymers containing 0.1-10 % hydrophilic polymer units and having solubility in the hydrophobic solvents. Thus, 180 mL PhMe, 54 g diallyldimethylammonium chloride, 24 g N,N'-dimethyl-N,N',N'-tetraallyl-2-butene-1,4-diammonium dichloride, 0.39 g 2,2'-azobis(2-amidinopropane)-HCl, 42 g H₂O, and 0.56 g of a 43% solids emulsion of copolymer [25085-19-2] (derived from acrylic acid 3, 2-ethylhexyl acrylate 60, and styrene 40 parts) were stirred 2 h each at 50, 60, 70, and 80° to give spherical copolymer [87079-51-4] beads having average diameter 0.35 mm and anion-exchange capacity 5.1 mequiv/g.

IT 25085-19-2 71770-97-3 87091-50-7

RL: USES (Uses)

(dispersing agents, in manufacture of spherical anion exchanger beads by suspension polymerization in hydrocarbon solvents)

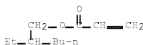
RN 25085-19-2 HCAPLUS

CN 2-Propenoic acid, polymer with ethenylbenzene and 2-ethylhexyl 2-propenoate (CA INDEX NAME)

CM 1

CRN 103-11-7

CMF C11 H20 O2



CM 2

CRN 100-42-5

CMF C8 H8



CM 3

CRN 79-10-7

CMF C3 H4 O2



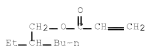
RN 71770-97-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-methylpropyl ester, polymer with 2-ethylhexyl 2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 103-11-7

CMF C11 H20 O2



CM 2

CRN 97-86-9

CMF C8 H14 O2



CM 3

CRN 79-10-7

CMF C3 H4 O2



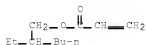
RN 87091-50-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-methylpropyl ester, polymer with
1-ethenyl-2-pyrrolidinone and 2-ethylhexyl 2-propenoate (9CI) (CA
INDEX NAME)

CM 1

CRN 103-11-7

CMF C11 H20 O2



CM 2

CRN 97-86-9

CMF C8 H14 O2



10/591,654-306094-EIC SEARCH

CM 3

CRM 88-12-0

CMF C6 H9 N O



IC C08F226-04
ICA B01J041-12
CC 37-3 (Plastics Manufacture and Processing)
IT Dispersing agents
(acrylic polymers, in manufacture of spherical
anion exchanger beads)
IT Anion exchangers
(manufacture of spherical beads of, dispersing agents in)
IT 87079-48-9 87079-50-3 87079-51-4 87079-70-7 87079-72-9
RL: USES (Uses)
(anion exchangers, manufacture of spherical, dispersing
agents for)
IT 25085-19-2 27401-10-1 71770-97-3
87079-52-5 87091-50-7
RL: USES (Uses)
(dispersing agents, in manufacture of spherical anion
exchanger beads by suspension polymerization in hydrocarbon solvents)

=> => d his l138

(FILE 'HCAPLUS' ENTERED AT 11:16:13 ON 28 AUG 2009)

SAV TEMP L135 PEZ654HCP/A
L138 22 S L135 NOT L137
SAV TEMP L137 PEZ654HCPA/A

=> d l138 1-22 ibib ed abs hitstr hitind

L138 ANSWER 1 OF 22 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2005:1075845 HCAPLUS Full-text
DOCUMENT NUMBER: 143:347632
TITLE: Anionic water-in-water
polymer dispersion,
method for the production
thereof and its use
INVENTOR(S): Bellmann, Susanne; Steiner, Norbert; Busch,
Michael; Steuck, Dev; Schulte, Johann; Woebel,
Wolfgang
PATENT ASSIGNEE(S): Stockhausen G.m.b.H., Germany
SOURCE: PCT Int. Appl., 35 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
WO 2005092954	A1	20051006	WO 2005-EP2358	2005 0307

10/591,654-306094-EIC SEARCH

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, EG, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

DE 102004013750 A1 20051103 DE 2004-102004013750 2004 0318

EP 1727853 A1 20061206 EP 2005-715776 2005 0307

CN 1954021 A 20070425 CN 2005-80015596 2005 0307

BR 2005008836 A 20070828 BR 2005-8836 2005 0307

JP 2007529581 T 20071025 JP 2007-503235 2005 0307

US 20070203290 A1 20070830 US 2007-593293 2007 0515

PRIORITY APPLN. INFO.: DE 2004-102004013750A 2004 0318

WO 2005-EP2358 W 2005 0307

ED Entered STIN: 07 Oct 2005

AB The invention relates to a method for producing anionic water-in-water polymer dispersions containing at least one finely dispersed, water-soluble and/or water-swellaible polymer A (such as acrylamide-ammonium acrylate copolymer) and a continuous aqueous phase. This phase has a partial quantity of at least one polymeric dispersing agent B [such as poly(potassium acrylate)] in which monomers dispersed in this aqueous phase are subjected to a radical polymerization, and after the polymerization is completed, the reaction mixture is subsequently diluted with the remaining amount of dispersing agent B. The invention also relates to the polymer dispersions obtained according to the method and to their use, particularly in the paper industry.

IT 25085-02-3P, Acrylamide-sodium acrylate copolymer 26100-47-0P, Acrylamide-ammonium acrylate copolymer 31212-13-2P, Acrylamide-potassium acrylate copolymer

RL: IMF (Industrial manufacture); PREP (Preparation) (anionic water-in-water polymer dispersions using polymeric dispersants)

RN 25085-02-3 HCAPLUS

CN 2-Propenoic acid, sodium salt (1:1), polymer with 2-propenamide

10/591,654-306094-EIC SEARCH

(CA INDEX NAME)

CM 1

CRN 7446-81-3

CMF C3 H4 O2 . Na



CM 2

CRN 79-06-1

CMF C3 H5 N O



RN 26100-47-0 HCAPLUS

CN 2-Propenoic acid, ammonium salt (1:1), polymer with 2-propenamide
(CA INDEX NAME)

CM 1

CRN 10604-69-0

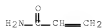
CMF C3 H4 O2 . H3 N



CM 2

CRN 79-06-1

CMF C3 H5 N O



RN 31212-13-2 HCAPLUS

CN 2-Propenoic acid, potassium salt (1:1), polymer with 2-propenamide
(CA INDEX NAME)

10/591,654-306094-EIC SEARCH

CM 1

CRN 10192-85-5

CMF C3 H4 O2 . K



CM 2

CRN 79-06-1

CMF C3 H5 N O



IT 9003-20-7, Polyvinyl acetate 9003-39-8,
 Polyvinylpyrrolidone 9005-11-2,
 Poly-N-vinylsuccinimide 26159-89-7, Polypotassium
 acrylate 866041-93-2, Poly-N-vinyl-2-methylsuccinimide
 RL: NUU (Other use, unclassified); USES (Uses)
 (dispersant; anionic water-in-water
 polymer dispersions using polymeric
 dispersants)

RN 9003-20-7 HCAPLUS

CN Acetic acid ethenyl ester, homopolymer (CA INDEX NAME)

CM 1

CRN 108-05-4

CMF C4 H6 O2



RN 9003-39-8 HCAPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



RN 9005-11-2 HCAPLUS
 CN 2,5-Pyrrolidinedione, 1-ethenyl-, homopolymer (CA INDEX NAME)
 CM 1
 CRN 2372-96-5
 CMF C6 H7 N O2



RN 26159-89-7 HCAPLUS
 CN 2-Propenoic acid, potassium salt (1:1), homopolymer (CA INDEX NAME)
 CM 1
 CRN 10192-85-5
 CMF C3 H4 O2 . K



RN 866041-93-2 HCAPLUS
 CN 2,5-Pyrrolidinedione, 1-ethenyl-3-methyl-, homopolymer (9CI) (CA INDEX NAME)
 CM 1
 CRN 36667-14-8
 CMF C7 H9 N O2



IC ICM C08J003-03
 ICS C08F002-10; C08F002-20; C08F020-36; C08F020-54; C08F020-56;
 D21H021-10
 CC 35-4 (Chemistry of Synthetic High Polymers)
 Section cross-reference(s): 43
 ST water in water anionic polymer
 dispersion paper industry; acrylamide ammonium acrylate

10/591,654-306094-EIC SEARCH

copolymer water in water dispersion; polypotassium acrylate
dispersant water in water polymer dispersion; polymeric
dispersant anionic polymer
dispersion

IT Flocculants
(anionic water-in-water polymer
dispersions using polymeric dispersants for
flocculants)

IT Paper
(anionic water-in-water polymer
dispersions using polymeric dispersants for
retention agents in paper manufacture)

IT Polyamines
RL: NUU (Other use, unclassified); USES (Uses)
(dispersant; anionic water-in-water
polymer dispersions using polymeric
dispersants)

IT Dispersing agents
(polymeric; anionic water-in-water
polymer dispersions using polymeric
dispersants)

IT 25085-02-3P, Acrylamide-sodium acrylate
copolymer 26100-47-0P, Acrylamide-ammonium
acrylate copolymer 31212-13-2P,
Acrylamide-potassium acrylate copolymer
RL: IMF (Industrial manufacture); PREP (Preparation)
(anionic water-in-water polymer
dispersions using polymeric dispersants)

IT 9002-98-6 9003-20-7, Polyvinyl acetate
9003-39-8, Polyvinylpyrrolidone 9003-47-8,
Polyvinylpyridine 9004-34-6D, Cellulose, derivs. 9004-54-0,
Dextran, uses 9005-11-2, Poly-N-vinylsuccinimide
9005-25-8, Starch, uses 9005-25-8D, Starch, derivs.
25232-42-2, Polyvinylimidazole 26159-89-7,
Polypotassium acrylate 27082-99-1,
Poly(N-vinyl-1,3-oxazolidin-2-one) 866041-93-2,
Poly-N-vinyl-2-methylsuccinimide 866041-94-3,
Poly(1-vinyl-2-methylimidazoline)
RL: NUU (Other use, unclassified); USES (Uses)
(dispersant; anionic water-in-water
polymer dispersions using polymeric
dispersants)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L138 ANSWER 2 OF 22 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2005:1071594 HCAPLUS Full-text
DOCUMENT NUMBER: 143:327677
TITLE: Method for preparing
disperse dye microcapsules
INVENTOR(S): Chen, Shuilin; Li, Zhuo
PATENT ASSIGNEE(S): Donghua University, Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 8
pp.
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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CN 1443807	A	20030924	CN 2003-116242	2003 0408

10/591,654-306094-EIC SEARCH

CN 1215126 C 20050817 <--
 PRIORITY APPLN. INFO.: CN 2003-116242

2003
 0408

OTHER SOURCE(S): MARPAT 143:327677
 ED Entered STN: 07 Oct 2005
 AB Disperse dyes are microencapsulated using di- or polyisocyanates as wall materials by
 interfacial polymerization. Thus, Disperse Dark Blue S 3BG was encapsulated with a
 reaction product of MDI-Polyether 2040 copolymer with BuNH2.
 IT 9003-39-8, Pvp
 RL: MOA (Modifier or additive use); USES (Uses)
 (disperse dye microencapsulated with polyurethane
 polyureas)
 RN 9003-39-8 HCAPLUS
 CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)
 CM 1
 CRN 88-12-0
 CMF C6 H9 N O



IC ICM C09B067-38
 ICS B01J013-16
 CC 40-6 (Textiles and Fibers)
 Section cross-reference(s): 41
 ST disperse dye microencapsulation polyether polyurethane
 polyurea
 IT Emulsifying agents
 Surfactants
 (anionic; disperse dye microencapsulated
 with polyurethane polyureas)
 IT Surfactants
 (cationic; disperse dye microencapsulated with
 polyurethane polyureas)
 IT Disperse dyes
 Emulsifying agents
 Microcapsules
 (disperse dye microencapsulated with polyurethane
 polyureas)
 IT Gelatins, uses
 Quaternary ammonium compounds, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (disperse dye microencapsulated with polyurethane
 polyureas)
 IT Amines, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (disperse dye microencapsulated with polyurethane
 polyureas)
 IT Polymerization
 (interfacial; disperse dye microencapsulated with
 polyurethane polyureas)
 IT Emulsifying agents
 Surfactants
 (nonionic; disperse dye microencapsulated with
 polyurethane polyureas)

10/591,654-306094-EIC SEARCH

IT Polyurethanes, uses
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (polyurea-; disperse dye microencapsulated with polyurethane polyureas)

IT Polyureas
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (polyurethane-; disperse dye microencapsulated with polyurethane polyureas)

IT Colloids
 (protective; disperse dye microencapsulated with polyurethane polyureas)

IT Sulfonic acids, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (salts, ligno-; disperse dye microencapsulated with polyurethane polyureas)

IT 77-58-7, Dibutyltin dilaurate
 RL: CAT (Catalyst use); USES (Uses)
 (disperse dye microencapsulated with polyurethane polyureas)

IT 865429-35-2DP, reaction products with butylamine
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (disperse dye microencapsulated with polyurethane polyureas)

IT 109-73-9D, Butylamine, reaction products with polyurethanes 151-21-3, Sodium lauryl sulfate, uses 9002-89-5, Polyvinyl alcohol 9003-05-8, Polyacrylamide 9003-39-8, Pvp 9004-67-5, Methyl cellulose
 RL: MOA (Modifier or additive use); USES (Uses)
 (disperse dye microencapsulated with polyurethane polyureas)

IT 31810-89-6, Disperse Blue 2BLN 234443-09-5, Disperse Blue S 3BG 865429-34-1, Disperse Yellow E 3RL
 RL: TEM (Technical or engineered material use); USES (Uses)
 (disperse dye microencapsulated with polyurethane polyureas)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L138 ANSWER 3 OF 22 HCAPLUS COPYRIGHT 2009 ACS ON STN
 ACCESSION NUMBER: 2005:888912 HCAPLUS Full-text

DOCUMENT NUMBER: 143:235439

TITLE: Dispersions prepared by use of self-stabilizing agents

INVENTOR(S): Kipp, James E.; Doty, Mark; Rebbeck, Christine L.

PATENT ASSIGNEE(S): Baxter International Inc., USA

SOURCE: PCT Int. Appl., 24 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2005077337	A2	20050825	WO 2005-US2471	2005 0126

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WO 2005077337 A3 20060323

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ,
 CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG,

10/591,654-306094-EIC SEARCH

ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,
 KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
 MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL,
 PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR,
 TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, SM
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
 ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH,
 CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT,
 LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF,
 CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 US 20050196416 A1 20050908 US 2005-43314

2005
 0126

EP 1711163 A2 20061018 EP 2005-712082

2005
 0126

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
 MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ,
 EE, HU, PL, SK, BA, HR, IS, YU
 JP 2007520555 T 20070726 JP 2006-552152

2005
 0126

PRIORITY APPLN. INFO.: US 2004-542372P P

2004
 0205

WO 2005-US2471 W

2005
 0126

ED Entered STN: 25 Aug 2005

AB The present invention relates to a dispersion of an active agent, which includes a multiphase system of an organic phase and an aqueous phase. The active agent, preferably poorly water soluble, e.g., a therapeutic agents such as efaproxiral, alprostadil, amiodarone and betulinic acid, possesses surface active properties and itself serves as a dispersant or a stabilizer for the dispersion. The dispersion is suitable for pharmaceutical, veterinary, cosmetic, and agricultural applications, and is suitable for in vivo delivery, particularly by parenteral routes. For example, prostaglandins as potential surface-active, poorly water-soluble active agents (e.g., prostaglandin E₁, also known as alprostadil) are carboxylic acids that may be deprotonated to form an amphipathic salt that is potentially capable of stabilizing an oil-in-water or solid-water interface.

IT 9003-39-8, Polyvinylpyrrolidone

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (multiphase dispersion systems of poorly water-soluble
 agents with surface-active properties acting as
 dispersants or stabilizers)

RN 9003-39-8 HCAPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



IC ICM A61K009-107
 CC 63-6 (Pharmaceuticals)
 Section cross-reference(s): 5, 62

ST water poorly sol active agent surfactant
 dispersant stabilizer dispersion

IT Alcohols, biological studies
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (C16-18; multiphase dispersion systems of poorly
 water-soluble agents with surface-active properties acting as
 dispersants or stabilizers)

IT Amphiphiles
 (active agents; multiphase dispersion
 systems of poorly water-soluble agents with surface-active
 properties acting as self-stabilizers)

IT Mycobacterium
 (agents for inhibition of; multiphase dispersion
 systems of poorly water-soluble agents with surface-active
 properties acting as dispersants or stabilizers)

IT Blood, disease
 (agents for treatment of; multiphase dispersion
 systems of poorly water-soluble agents with surface-active
 properties acting as dispersants or stabilizers)

IT Sulfonic acids, biological studies
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (alkanesulfonic, esters; multiphase dispersion
 systems of poorly water-soluble agents with surface-active
 properties acting as self-stabilizers)

IT Pyridinium compounds
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (alkyl; multiphase dispersion systems of poorly
 water-soluble agents with surface-active properties acting as
 dispersants or stabilizers)

IT Quaternary ammonium compounds, biological studies
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (alkylbenzyltrimethyl, chlorides; multiphase dispersion
 systems of poorly water-soluble agents with surface-active
 properties acting as dispersants or stabilizers)

IT Hormones, animal, biological studies
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (anabolic steroids; multiphase dispersion systems of
 poorly water-soluble agents with surface-active properties acting
 as dispersants or stabilizers)

IT Surfactants
 (anionic; multiphase dispersion systems of
 poorly water-soluble agents with surface-active properties acting
 as self-stabilizers)

IT Skin preparations (pharmaceutical)
 (astringents; multiphase dispersion systems of poorly
 water-soluble agents with surface-active properties acting as
 dispersants or stabilizers)

IT Drug delivery systems
 (buccal; multiphase dispersion systems of poorly
 water-soluble agents with surface-active properties acting as
 dispersants or stabilizers)

IT Surfactants
 (cationic; multiphase dispersion systems of poorly
 water-soluble agents with surface-active properties acting as
 self-stabilizers)

IT Imaging agents
 (contrast; multiphase dispersion systems of poorly
 water-soluble agents with surface-active properties acting as
 dispersants or stabilizers)

IT Drug delivery systems
 (emulsions; multiphase dispersion systems
 of poorly water-soluble agents with surface-active properties
 acting as dispersants or stabilizers)

10/591,654-306094-EIC SEARCH

IT Alcohols, biological studies
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (fatty, ethoxylated; multiphase dispersion systems of
 poorly water-soluble agents with surface-active properties acting
 as dispersants or stabilizers)

IT Nervous system agents
 (ganglionic blocking agents; multiphase
 dispersion systems of poorly water-soluble agents with
 surface-active properties acting as dispersants or
 stabilizers)

IT Hydrocarbons, biological studies
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (halo; multiphase dispersion systems of poorly
 water-soluble agents with surface-active properties acting as
 dispersants or stabilizers)

IT Drug delivery systems
 (liqs., dispersions; multiphase dispersion
 systems of poorly water-soluble agents with surface-active
 properties acting as dispersants or stabilizers)

IT Hemoglobins
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (modifiers; multiphase dispersion systems of poorly
 water-soluble agents with surface-active properties acting as
 dispersants or stabilizers)

IT Adrenoceptor agonists
 Adrenoceptor antagonists
 Alkylating agents, biological
 Allergy inhibitors
 Analgesics
 Anesthetics
 Antacids
 Anthelmintics
 Anti-inflammatory agents
 Antiarrhythmics
 Antibacterial agents
 Antibiotics
 Anticoagulants
 Anticonvulsants
 Antidepressants
 Antidiabetic agents
 Antidiarrheals
 Antidotes
 Antihistamines
 Antihypertensives
 Antimalarials
 Antipyretics
 Antirheumatic agents
 Antithyroid agents
 Antitumor agents
 Antitussives
 Antiviral agents
 Anxiolytics
 Appetite depressants
 Cholinergic agonists
 Cholinergic antagonists
 Coating materials
 Cosmetics
 Diagnostic agents
 Dietary supplements
 Diuretics
 Dopamine agonists
 Drugs
 Fungicides
 Hemostatics
 Hypnotics and Sedatives
 Hypolipemic agents
 Imaging agents

Immunomodulators
 Immunostimulants
 Immunosuppressants
 Muscarinic agonists
 Muscarinic antagonists
 Muscle relaxants
 Nervous system stimulants
 Particle size
 Pesticides
 Protozoacides
 Psychotropics
 Radiopharmaceuticals
 Sterilization and Disinfection
 Vaccines
 Vasodilators
 β -Adrenoceptor antagonists
 (multiphase dispersion systems of poorly water-soluble
 agents with surface-active properties acting as
 dispersants or stabilizers)

- IT Acids, biological studies
 Albumins, biological studies
 Alcohols, biological studies
 Aldehydes, biological studies
 Alkaloids, biological studies
 Amines, biological studies
 Antibodies and Immunoglobulins
 Aromatic hydrocarbons, biological studies
 Canola oil
 Carbohydrates, biological studies
 Caseins, biological studies
 Corticosteroids, biological studies
 Cottonseed oil
 Cycloalkanes
 Cycloalkenes
 Cyclosiloxanes
 Diglycerides
 Esters, biological studies
 Ethers, biological studies
 Glycerides, biological studies
 Glycoproteins
 Hormones, animal, biological studies
 Ketones, biological studies
 Lysophospholipids
 Monoglycerides
 Peanut oil
 Peptides, biological studies
 Phosphatidylethanolamines, biological studies
 Polyoxyalkylenes, biological studies
 Polysaccharides, biological studies
 Prostaglandins
 Proteins
 Quaternary ammonium compounds, biological studies
 Safflower oil
 Sex hormones
 Soybean oil
 Vitamins
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (multiphase dispersion systems of poorly water-soluble
 agents with surface-active properties acting as
 dispersants or stabilizers)
- IT Dispersing agents
 (multiphase dispersion systems of poorly water-soluble
 agents with surface-active properties acting as self-
 dispersants and self-stabilizers)
- IT Stabilizing agents
 (multiphase dispersion systems of poorly water-soluble

10/591,654-306094-EIC SEARCH

- agents with surface-active properties acting as self-stabilizers)
- IT Bile acids
- Bile salts
- Phosphatidic acids
- Phosphatidylcholines, biological studies
- Phosphatidylglycerols
- Phosphatidylinositols
- Phosphatidylserines
- Phospholipids, biological studies
- RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
- (multiphase dispersion systems of poorly water-soluble agents with surface-active properties acting as self-stabilizers)
- IT Surfactants
- (nonionic; multiphase dispersion systems of poorly water-soluble agents with surface-active properties acting as self-stabilizers)
- IT Drug delivery systems
- (ophthalmic; multiphase dispersion systems of poorly water-soluble agents with surface-active properties acting as dispersants or stabilizers)
- IT Drug delivery systems
- (oral; multiphase dispersion systems of poorly water-soluble agents with surface-active properties acting as dispersants or stabilizers)
- IT Nanoparticles
- (organic phase comprising; multiphase dispersion systems of poorly water-soluble agents with surface-active properties acting as dispersants or stabilizers)
- IT Drug delivery systems
- (parenteral; multiphase dispersion systems of poorly water-soluble agents with surface-active properties acting as dispersants or stabilizers)
- IT Drug delivery systems
- (rectal; multiphase dispersion systems of poorly water-soluble agents with surface-active properties acting as dispersants or stabilizers)
- IT Phospholipids, biological studies
- RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
- (soya; multiphase dispersion systems of poorly water-soluble agents with surface-active properties acting as dispersants or stabilizers)
- IT Liquid-liquid interface
- Liquid-solid interface
- (stabilization of; multiphase dispersion systems of poorly water-soluble agents with surface-active properties acting as dispersants or stabilizers)
- IT Drug delivery systems
- (topical; multiphase dispersion systems of poorly water-soluble agents with surface-active properties acting as dispersants or stabilizers)
- IT Drug delivery systems
- (transdermal; multiphase dispersion systems of poorly water-soluble agents with surface-active properties acting as dispersants or stabilizers)
- IT Drug delivery systems
- (vaginal; multiphase dispersion systems of poorly water-soluble agents with surface-active properties acting as dispersants or stabilizers)
- IT Surfactants
- (zwitterionic; multiphase dispersion systems of poorly water-soluble agents with surface-active properties acting as self-stabilizers)
- IT 131179-95-8, Efavoxirral
- RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
- (RSR 13; multiphase dispersion systems of poorly

10/591,654-306094-EIC SEARCH

- water-soluble agents with surface-active properties acting as self-stabilizers)
- IT 61909-81-7, Polyethylene glycol 12-hydroxystearate
 RI: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (Solulol; multiphase dispersion systems of poorly water-soluble agents with surface-active properties acting as dispersants or stabilizers)
- IT 9001-08-5, Cholinesterase
 RI: BSU (Biological study, unclassified); BIOL (Biological study)
 (inhibitors; multiphase dispersion systems of poorly water-soluble agents with surface-active properties acting as dispersants or stabilizers)
- IT 57-09-0, Cetyltrimethylammonium bromide 69-89-6D, Xanthine, derivs. 81-24-3, Taurocholic acid 83-44-3, Deoxycholic acid 100-51-6, Benzyl alcohol, biological studies 107-46-0, Hexamethyldisiloxane 108-32-7, Propylene carbonate 109-99-9, Tetrahydrofuran, biological studies 112-92-5, Stearyl alcohol 139-07-1, Lauryl dimethylbenzylammonium chloride 141-78-6, Ethyl acetate, biological studies 145-42-6, Sodium taurocholate 302-95-4, Sodium deoxycholate 360-65-6, Glycodeoxycholic acid 461-05-2D, Carnitine hydrochloride, acyl derivs. 475-31-0, Glycocholic acid 863-57-0, Sodium glycocholate 2462-63-7, Dioleoylphosphatidylethanolamine 4537-76-2, Distearoylphosphatidylethanolamine 5681-36-7, Dipalmitoylphosphatidylethanolamine 8001-27-2, Hirudin 9002-89-5, Polyvinyl alcohol 9003-11-6, Ethylene oxide-propylene oxide copolymer 9003-39-8, Polyvinylpyrrolidone 9004-34-6, Cellulose, biological studies 9004-64-2, Hydroxypropyl cellulose 9004-65-3, Hydroxypropyl methyl cellulose 9004-67-5, Methyl cellulose 9005-25-8, Starch, biological studies 9005-25-8D, Starch, derivs. 9005-27-0, Hydroxyethyl starch 9005-49-6, Heparin, biological studies 9005-63-4D, Polyoxyethylene sorbitan, fatty acid esters 9007-12-9, Calcitonin 9012-76-4, Chitosan 12441-09-7D, Sorbitan, esters 20255-95-2, Dimyristoylphosphatidylethanolamine 25322-68-3, Polyethylene glycol 25322-68-3D, Polyoxyethylene glycol, fatty acid esters or phospholipid conjugates 25322-69-4, Polypropylene glycol 31566-31-1, Glycerol monostearate 36653-82-4, Cetyl alcohol 37353-59-6, Hydroxymethyl cellulose 110617-70-4, Poloxamine
 RI: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (multiphase dispersion systems of poorly water-soluble agents with surface-active properties acting as dispersants or stabilizers)
- IT 56-81-5D, Glycerol, esters 81-25-4, Cholic acid 151-21-3, Sodium lauryl sulfate, biological studies 472-15-1, Betulinic acid 577-11-7, Dioctyl sodium sulfosuccinate 745-65-3, Alprostadil 1951-25-3, Amiodarone 4568-28-9, Triethanolamine stearate 7664-38-2D, Phosphoric acid, alkyl esters 9004-32-4, Sodium carboxymethyl cellulose 9005-38-3, Sodium alginate 10124-65-9, Potassium laurate 13598-36-2D, Phosphonic acid, alkyl esters 34870-92-3D, Polyoxyethylene sulfate, alkyl derivs.
 RI: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (multiphase dispersion systems of poorly water-soluble agents with surface-active properties acting as self-stabilizers)

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L138 ANSWER 4 OF 22 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2004:220420 HCAPLUS Full-text
 DOCUMENT NUMBER: 140:272716
 TITLE: Formulations comprising water-soluble granulates
 INVENTOR(S): Dreyer, Pierre; Haiss, Elke; Iltis, Laure; Kvita, Petr; Menge, Ullrich

10/591,654-306094-EIC SEARCH

PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
 SOURCE: PCT Int. Appl., 62 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004022693	A1	20040318	WO 2003-EP9409	2003 0826
<--				
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SH, TD, TG				
AU 2003267010	A1	20040329	AU 2003-267010	2003 0826
<--				
EP 1534814	A1	20050601	EP 2003-747927	2003 0826
<--				
EP 1534814	B1	20060524		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003014340	A	20050705	BR 2003-14340	2003 0826
<--				
CN 1678728	A	20051005	CN 2003-820763	2003 0826
<--				
CN 1320090	C	20070606		
JP 2005537370	T	20051208	JP 2004-533402	2003 0826
<--				
AT 327313	T	20060615	AT 2003-747927	2003 0826
<--				
ES 2263996	T3	20061216	ES 2003-747927	2003 0826
<--				
IN 2004CN03172	A	20060303	IN 2004-CN3172	2004 1213
<--				
MX 2005001651	A	20050419	MX 2005-1651	2005 0211

10/591,654-306094-EIC SEARCH

US 20050227891 A1 20051013 US 2005-526093
2005
0223

PRIORITY APPLN. INFO.: EP 2002-405766 A
2002
0904

WO 2003-EP9409 W
2003
0826

OTHER SOURCE(S): MARPAT 140:272716
ED Entered STN: 19 Mar 2004

AB The present invention relates to (i) formulations comprising water-soluble granulates of phthalocyanine compds., (ii) a process for the preparation thereof, and (iii) the use thereof in washing agent and washing agent additive formulations. Thus, a composition comprising 564 g 19.5% aqueous aluminum phthalocyanine solution 564 and 1857 g an aqueous solution containing 541 g anionic dispersing agent and 270 g sodium sulfate was stirred at 25° for 1 h and dried in a spray-dryer with inlet air temperature 190° and exhaust air temperature 105° to give a granulate with average particle d. 70 µm, bulk d. 520 g/L, and residual water content 6%, 0.03% of which was mixed with sodium laurylbenzenesulfonate 10, sodium laurylsulfate 3, Neodol 23-6.5E 4, zeolite A 25, sodium percarbonate 20, perfume 0.1, cellulose 1.5, CM-cellulose 2, sodium sulfate 15, sodium carbonate 10, and tetraacetyl ethylenediamine 3% to give a washing agent.

IT 79-10-7D, Acrylic acid, ester, polymers
108-05-4, Vinyl acetate, uses 9003-20-7,
Polyvinyl acetate 9003-39-8, Polyvinyl pyrrolidone
25085-34-1, Acrylic acid-styrene copolymer
25086-89-9, Vinyl acetate-vinyl pyrrolidone copolymer
30581-59-0, Dimethylaminoethyl methacrylate-vinyl
pyrrolidone copolymer 55989-05-4, Ethyl
acrylate-methacrylic acid-methyl methacrylate copolymer ammonium
salt 102972-64-5, Dimethylaminoethyl
methacrylate-vinyl caprolactam-vinyl
pyrrolidone copolymer 131954-48-8
156218-88-1, Dimethylaminopropyl methacrylate-vinyl
pyrrolidone copolymer 478243-90-2,
Dimethylaminopropylmethacrylamide-vinyl pyrrolidone copolymer
RL: MOA (Modifier or additive use); USES (Uses)
(dispersing agent; formulations comprising
water-soluble granulates)

RN 79-10-7 HCAPLUS
CN 2-Propenoic acid (CA INDEX NAME)



RN 108-05-4 HCAPLUS
CN Acetic acid ethenyl ester (CA INDEX NAME)



RN 9003-20-7 HCAPLUS
CN Acetic acid ethenyl ester, homopolymer (CA INDEX NAME)

10/591,654-306094-EIC SEARCH

CM 1

CRN 108-05-4

CMF C4 H6 O2



RN 9003-39-8 HCAPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



RN 25085-34-1 HCAPLUS

CN 2-Propenoic acid, polymer with ethenylbenzene (CA INDEX NAME)

CM 1

CRN 100-42-5

CMF C8 H8



CM 2

CRN 79-10-7

CMF C3 H4 O2



RN 25086-89-9 HCAPLUS

CN Acetic acid ethenyl ester, polymer with 1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

CRN 108-05-4

CMF C4 H6 O2



CM 2

CRN 88-12-0

CMF C6 H9 N O



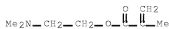
RN 30581-59-0 HCAPLUS

CM 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

CRN 2867-47-2

CMF C8 H15 N O2



CM 2

CRN 88-12-0

CMF C6 H9 N O



RN 55989-05-4 HCAPLUS

CM 2-Propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate and methyl 2-methyl-2-propenoate, ammonium salt (CA INDEX NAME)

CM 1

CRN 25133-97-5

CMF (C5 H8 O2 . C5 H8 O2 . C4 H6 O2)x

CCI PMS

CM 2

CRN 140-88-5

CMF C5 H8 O2



CM 3

CRN 80-62-6

CMF C5 H8 O2



CM 4

CRN 79-41-4

CMF C4 H6 O2



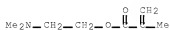
RN 102972-64-5 HCAPLUS

CM 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer
with 1-ethenylhexahydro-2H-azepin-2-one and
1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

CRN 2867-47-2

CMF C8 H15 N O2



CM 2

CRN 2235-00-9

CMF C8 H13 N O



CM 3

CRN 88-12-0

CMF C6 H9 N O



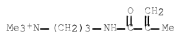
RN 131954-48-8 HCAPLUS

CN 1-Propanaminium, N,N,N-trimethyl-3-[(2-methyl-1-oxo-2-propen-1-yl)amino]-, chloride (1:1), polymer with 1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

CRN 51410-72-1

CMF C10 H21 N2 O . Cl

● Cl⁻

CM 2

CRN 88-12-0

CMF C6 H9 N O



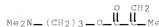
RN 156218-88-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(dimethylamino)propyl ester, polymer with 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 20602-77-1

CMF C9 H17 N O2



CM 2

CRN 88-12-0

CMF C6 H9 N O



RN 478243-90-2 HCAPLUS

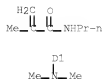
CN 2-Propenamide, N-[(dimethylamino)propyl]-2-methyl-, polymer with 1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

CRN 67296-21-3

CMF C9 H18 N2 O

CCI IDS



CM 2

CRN 88-12-0

CMF C6 H9 N O



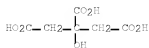
IT 64-19-7, Acetic acid, uses 68-04-2, Sodium citrate 77-92-9, Citric acid, uses 79-10-7, Acrylic acid, uses 7647-14-5, Sodium chloride, uses 7757-82-6, Sodiumsulfate, uses 9003-01-4, Polyacrylic acid
 RL: MOA (Modifier or additive use); USES (Uses)
 (formulations comprising water-soluble granulates)

RN 64-19-7 HCAPLUS

CN Acetic acid (CA INDEX NAME)

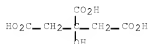


RN 68-04-2 HCAPLUS

CN 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, sodium salt (1:3)
(CA INDEX NAME)

RN 77-92-9 HCAPLUS

CN 1,2,3-Propanetricarboxylic acid, 2-hydroxy- (CA INDEX NAME)



RN 79-10-7 HCAPLUS

CN 2-Propenoic acid (CA INDEX NAME)



RN 7647-14-5 HCAPLUS

CN Sodium chloride (NaCl) (CA INDEX NAME)



RN 7757-82-6 HCAPLUS

CN Sulfuric acid sodium salt (1:2) (CA INDEX NAME)



10/591,654-306094-EIC SEARCH

RN 9003-01-4 HCAPLUS
 CN 2-Propenoic acid, homopolymer (CA INDEX NAME)
 CM 1
 CRN 79-10-7
 CMF C3 H4 O2



IC ICM C11D017-06
 ICS C11D003-39
 CC 46-5 (Surface Active Agents and Detergents)
 ST formulation comprising water soluble granulate; aluminum phthalocyanine anionic dispersing agent sodium sulfate granulate prepn
 IT Dispersing agents
 Surfactants
 (anionic; formulations comprising water-soluble granulates)
 IT Sulfonic acids, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (arenesulfonic, salts, alkyl, dispersing agents; formulations comprising water-soluble granulates)
 IT Polyoxoalkylenes, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (block, dispersing agents; formulations comprising water-soluble granulates)
 IT Polyoxoalkylenes, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (dispersing agent; formulations comprising water-soluble granulates)
 IT Acrylic polymers, uses
 Gelatins, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (dispersing agents; formulations comprising water-soluble granulates)
 IT Bleaching agents
 Dispersing agents
 Dyes
 Fillers
 Fluorescent brighteners
 Pigments, nonbiological
 Textiles
 Wetting agents
 (formulations comprising water-soluble granulates)
 IT A zeolites
 Aluminosilicates, uses
 Borates
 Carbonates, uses
 Carboxylic acids, uses
 Diphosphates
 Halides
 Kaolin, uses
 Peroxides, uses
 Peroxysulfates
 Phosphates, uses
 Polysiloxanes, uses
 Salts, uses
 Silicates, uses

Sulfates, uses
 Sulfites
 Zeolites (synthetic), uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (formulations comprising water-soluble granulates)

IT Carboxylic acids, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (polycarboxylic, dispersing agents;
 formulations comprising water-soluble granulates)

IT Carboxylic acids, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (polycarboxylic, salts; formulations comprising
 water-soluble granulates)

IT Sulfonic acids, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (polymers, dispersing agents; formulations
 comprising water-soluble granulates)

IT Sulfonic acids, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (polymers, heterocyclic, dispersing agents;
 formulations comprising water-soluble granulates)

IT Sulfonic acids, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (sodium salts, polymers, dispersing
 agents; formulations comprising water-soluble granulates)

IT Polyphosphates
 RL: MOA (Modifier or additive use); USES (Uses)
 (sodium salts; formulations comprising water-soluble
 granulates)

IT Polymers, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (sulfo-containing, heterocyclic, dispersing
 agents; formulations comprising water-soluble granulates)

IT Aromatic compounds
 RL: MOA (Modifier or additive use); USES (Uses)
 (sulfonates, alkyl, dispersing agents;
 formulations comprising water-soluble granulates)

IT Polymers, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (water-soluble, dispersing agents;
 formulations comprising water-soluble granulates)

IT 9017-33-8, Naphthalenesulfonic acid, polymer with
 formaldehyde
 RL: MOA (Modifier or additive use); USES (Uses)
 (anionic dispersing agent;
 formulations comprising water-soluble granulates)

IT 25608-40-6, Polyaspartic acid
 RL: MOA (Modifier or additive use); USES (Uses)
 (dispersing agent, assumed monomers;
 formulations comprising water-soluble granulates)

IT 57-50-1, Sucrose, uses 63-42-3, Lactose 79-10-7D,
 Acrylic acid, ester, polymers 88-12-0, uses 108-05-4
 , Vinyl acetate, uses 1321-69-3D, Naphthalenesulfonic acid
 sodium salt, alkyl derivs. 8061-51-6, Sodium
 lignosulfonate 9000-01-5, Arabic gum 9000-65-1, Tragacanth
 9002-89-5, Polyvinyl alcohol 9003-05-8, Polyacrylamide
 9003-11-6, Ethylene oxide-propylene oxide copolymer
 9003-20-7, Polyvinyl acetate 9003-39-8,
 Polyvinyl pyrrolidone 9004-32-4, Carboxymethyl cellulose
 9004-64-2, Hydroxypropyl cellulose 9050-31-1, Hydroxypropyl
 methylcellulose phthalate 9050-36-6, Maltodextrin
 25085-34-1, Acrylic acid-styrene copolymer
 25085-89-9, Vinyl acetate-vinyl pyrrolidone copolymer
 25155-19-5D, Naphthalenesulfonic acid, alkyl derivs., polymers,
 sodium salts 25322-68-3, Polyethylene glycol
 26063-13-8, Polyaspartic acid 26101-52-0, Polyethylenesulfonic
 acid 30581-59-0, Dimethylaminoethyl methacrylate-vinyl

10/591,654-306094-EIC SEARCH

pyrrolidone copolymer 37353-59-6, Hydroxymethyl cellulose
 50851-57-5, Polystyrenesulfonic acid 52503-47-6, Ethylene
 oxide-propylene oxide copolymer ether with ethylenediamine
 55983-05-4, Ethyl acrylate-methacrylic acid-methyl
 methacrylate copolymer ammonium salt 58226-28-1
 64519-82-0, Isomalt 102972-64-5, Dimethylaminoethyl
 methacrylate-vinyl caprolactam-vinyl
 pyrrolidone copolymer 131954-48-8
 156218-88-1, Dimethylaminopropyl methacrylate-vinyl
 pyrrolidone copolymer 478243-90-2,
 Dimethylaminopropylmethacrylamide-vinyl pyrrolidone copolymer
 RL: MOA (Modifier or additive use); USES (Uses)
 (dispersing agent; formulations comprising
 water-soluble granulates)

IT 64-18-6, Formic acid, uses 64-19-7, Acetic
 acid, uses 65-85-0, Benzoic acid, uses 68-04-2,
 Sodium citrate 71-52-3, Hydrogen carbonate, uses
 77-92-9, Citric acid, uses 79-09-4, Propionic acid, uses
 79-10-7, Acrylic acid, uses 83-86-3 87-69-4, Tartaric
 acid, uses 88-99-3, Phthalic acid, uses 100-21-0, Terephthalic
 acid, uses 104-15-4, p-Toluenesulfonic acid, uses 110-15-6,
 Succinic acid, uses 110-16-7, Maleic acid, uses 144-62-7,
 Oxalic acid, uses 497-19-8, Sodium carbonate, uses 526-95-4,
 Gluconic acid 563-69-9, Carbonoperoxoic acid 1344-09-8, Sodium
 silicate 2809-21-4, Hydroxyethanediphosphonic acid 3313-92-6,
 Sodium percarbonate 7631-86-9, Silica, uses 7632-05-5, Sodium
 phosphate 7647-14-5, Sodium chloride, uses
 7757-82-6, Sodiumsulfate, uses 7758-29-4, Sodium
 tripolyphosphate 8061-51-6D, Sodium lignosulfonate, oxy derivs.
 9001-92-7, Protease 9003-01-4, Polyacrylic acid
 9012-54-8, Cellulase 10332-33-9, Sodium perborate monohydrate
 11138-47-9, Sodium perborate 13463-67-7, Titaniumoxide, uses
 14807-96-6, Talc, uses 14987-04-3, Magnesium trisilicate
 15477-76-6, Phosphonate 41376-15-2D, Chloromethylbiphenyl,
 polymers with naphthalenesulfonic acid 102568-16-1D,
 salts
 RL: MOA (Modifier or additive use); USES (Uses)
 (formulations comprising water-soluble granulates)

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE
 IN THE RE FORMAT

L138 ANSWER 5 OF 22 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:20006 HCAPLUS Full-text

DOCUMENT NUMBER: 140:78230

TITLE: Heat-sensitive delayed-tack antiblocking
 adhesives containing no endocrine disruptors
 and their manufacture

INVENTOR(S): Yasuda, Jun

PATENT ASSIGNEE(S): The Intec Inc., Japan

SOURCE: Jpn. Kokai Tokyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	

JP 2004002772	A	20040108	JP 2003-91061	2003 0328

PRIORITY APPLN. INFO.:		<--		
		JP 2002-114528	A	2002 0417

10/591,654-306094-EIC SEARCH

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OTHER SOURCE(S): MARPAT 140:78230

ED Entered STIN: 11 Jan 2004

AB Title adhesives contain aqueous dispersions of thermoplastic resins with Tg -20 to 100°, trimethylolpropane tribenzoate (the benzene rings may be substituted with alkyl, OH, and/or NH2), and aqueous dispersions. Thus, aqueous dispersion containing Polysol TI 3052 (styrene-acrylate ester copolymer) and NeoCryl BT 26 (styrene-acrylate ester copolymer) 35.00, trimethylolpropane tribenzoate 27.50, aqueous solution of SN dispersant 5045 (anionic surfactant) 22.50, and SE 50 (tackifier) 15.00 parts were blended, applied on the back side of coated paper, heated at 120°, and bonded to a glass plate to show firm adhesion to the substrate.

IT 79-10-7D, Acrylic acid, esters, polymers
25086-29-7, Styrene-vinylpyrrolidone copolymer
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(phthalate ester-free heat-sensitive delayed-tack antiblocking adhesives containing trimethylolpropane tribenzoates)

RN 79-10-7 HCAPLUS

CN 2-Propenoic acid (CA INDEX NAME)



RN 25086-29-7 HCAPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, polymer with ethenylbenzene (CA INDEX NAME)

CM 1

CRN 100-42-5

CMF C8 H8



CM 2

CRN 88-12-0

CMF C6 H9 N O



IC ICM C09J201-00

ICS C09J011-06

CC 38-3 (Plastics Fabrication and Uses)

IT 74-85-1D, Ethylene, polymers with acrylate esters
79-10-7D, Acrylic acid, esters, polymers 100-42-5D,
Styrene, polymers with acrylate esters 108-05-4D, Vinyl acetate,
polymers with acrylate esters 9003-20-7, Poly(vinyl acetate)
9003-55-8, Butadiene-styrene copolymer 9003-63-8, Poly(butyl
methacrylate) 9011-06-7, Vinyl chloride-vinylidene chloride

10/591,654-306094-EIC SEARCH

copolymer 25037-78-9, Ethylene-vinyl chloride copolymer
 25086-29-7, Styrene-vinylpyrrolidone copolymer
 299926-27-5, Polysol TI 3052 316354-55-9, NeoCryl BT 26
 RL: POF (Polymer in formulation); TEM (Technical or engineered
 material use); USES (Uses)
 (phthalate ester-free heat-sensitive delayed-tack antiblocking
 adhesives containing trimethylolpropane tribenzoates)

L138 ANSWER 6 OF 22 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2003:309601 HCAPLUS Full-text
 DOCUMENT NUMBER: 138:322908
 TITLE: High-yield papermaking methods
 INVENTOR(S): Kubota, Isamu; Wakatsuki, Shogo; Kodaka, Emiko
 PATENT ASSIGNEE(S): Hymo Corporation, Japan
 SOURCE: Jpn. Kokai Tokyo Koho, 10 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003119696	A	20030423	JP 2001-314658	2001 1012

PRIORITY APPLN. INFO.: JP 2001-314658
 2001
 1012

ED Entered STN: 23 Apr 2003
 AB Cationic and/or amphoteric aqueous polymers and anionic polymer dispersions containing
 <100 µm fine inorg. granules are added to pulping liquid, and the anionic polymer
 dispersions are prepared by polymerizing 5-100 mol% CHR2:CR1AY1 (R1 = H, Me,
 carboxymethyl, A = SO3, C6H4SO3, CONHMe2CH2SO3, C6H4CO2, or CO2, R2 = H or CO2Y2, Y1,
 Y2 = H or cations) with 0-95 mol% nonionic monomers in the presence of inorg. granules
 and polymer dispersing agents in aqueous salt solns. Thus, a cationic 50:50 acrylamide-
 acryloyloxyethyltrimethylammonium chloride copolymer, an amphoteric 40:40:20
 acrylamide-acryloyloxyethyltrimethylammonium chloride-sodium acrylate copolymer, and an
 anionic bentonite-containing acrylamide-acrylic acid-Na acrylate copolymer were
 prepared
 IT 9003-06-9P, Acrylamide-acrylic acid copolymer
 62649-23-4P, Acrylamide-acrylic acid-sodium acrylate
 copolymer 142943-69-9P 494852-63-0P,
 Acrylamide-acrylic acid-itaconic acid-sodium acrylate-sodium
 itaconate copolymer 514225-71-9P,
 Acrylamide-2-acrylamido-2-methylpropanesulfonic acid-acrylic
 acid-sodium acrylate copolymer
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
 PREP (Preparation); USES (Uses)
 (high-yield papermaking methods using cationic and
 amphoteric and inorg. granule-containing anionic polymers)
 RN 9003-06-9 HCAPLUS
 CN 2-Propenoic acid, polymer with 2-propenamide (CA INDEX NAME)

CM 1

CRN 79-10-7
 CME C3 H4 O2



CM 2

CRN 79-06-1

CMF C3 H5 N O



RN 62649-23-4 HCAPLUS

CN 2-Propenoic acid, polymer with 2-propenamide and sodium
2-propenoate (1:1) (CA INDEX NAME)

CM 1

CRN 7446-81-3

CMF C3 H4 O2 . Na



CM 2

CRN 79-10-7

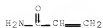
CMF C3 H4 O2



CM 3

CRN 79-06-1

CMF C3 H5 N O



RN 142943-69-9 HCAPLUS

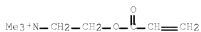
CN Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propen-1-yl)oxy]-,
chloride (1:1), polymer with 2-propenamide and sodium 2-propenoate
(1:1) (CA INDEX NAME)

10/591,654-306094-EIC SEARCH

CM 1

CRM 44992-01-0

CMF C8 H16 N O2 . Cl



CM 2

CRM 7446-81-3

CMF C3 H4 O2 . Na



CM 3

CRM 79-06-1

CMF C3 H5 N O



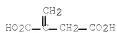
RN 494852-63-0 HCAPLUS

CN Butanedioic acid, methylene-, polymer with 2-propenamide, 2-propenoic acid, sodium methylenebutanedioate and sodium 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRM 50976-31-3

CMF C5 H6 O4 . x Na



CM 2

CRN 7446-81-3

CMF C3 H4 O2 . Na



CM 3

CRN 97-65-4

CMF C5 H6 O4



CM 4

CRN 79-10-7

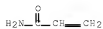
CMF C3 H4 O2



CM 5

CRN 79-06-1

CMF C3 H5 N O



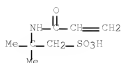
RN 514225-71-9 HCAPLUS

CN 2-Propenoic acid, polymer with
2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-1-propanesulfonic acid,
2-propenamide and sodium 2-propenoate (1:1) (CA INDEX NAME)

CM 1

CRN 15214-89-8

CMF C7 H13 N O4 S



CM 2

CRN 7446-81-3

CMF C3 H4 O2 , Na



● Na

CM 3

CRN 79-10-7

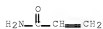
CMF C3 H4 O2



CM 4

CRN 79-06-1

CMF C3 H5 N O



IT 9003-39-8, Poly(N-vinylpyrrolidone)

RL: MOA (Modifier or additive use); USES (Uses)
 (high-yield papermaking methods using cationic and
 amphoteric and inorg. granule-containing anionic polymers)

RN 9003-39-8 HCAPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



- IC ICM D21H021-10
ICS C08F002-16; C08F002-44; C08F020-06; C08F020-58; C08F022-02; D21H017-42
- CC 43-7 (Cellulose, Lignin, Paper, and Other Wood Products)
- IT Polyelectrolytes
(amphoteric; high-yield papermaking methods using cationic and amphoteric and inorg. granule-containing anionic polymers)
- IT Polyelectrolytes
(anionic; high-yield papermaking methods using cationic and amphoteric and inorg. granule-containing anionic polymers)
- IT Polyelectrolytes
(cationic; high-yield papermaking methods using cationic and amphoteric and inorg. granule-containing anionic polymers)
- IT Dispersing Agents
Paper
(high-yield papermaking methods using cationic and amphoteric and inorg. granule-containing anionic polymers)
- IT Bentonite, uses
Inorganic compounds
Kaolin, uses
Polymers, uses
RL: MOA (Modifier or additive use); USES (Uses)
(high-yield papermaking methods using cationic and amphoteric and inorg. granule-containing anionic polymers)
- IT Vinyl compounds, uses
RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
PREP (Preparation); USES (Uses)
(polymers; high-yield papermaking methods using cationic and amphoteric and inorg. granule-containing anionic polymers)
- IT Polymerization
(radical; high-yield papermaking methods using cationic and amphoteric and inorg. granule-containing anionic polymers)
- IT 9003-06-9P, Acrylamide-acrylic acid copolymer
62649-23-4P, Acrylamide-acrylic acid-sodium acrylate copolymer
69418-26-4P, Acrylamide-acryloyloxyethyltrimethylammonium chloride copolymer
142943-69-9P 494852-63-0P, Acrylamide-acrylic acid-itaconic acid-sodium acrylate-sodium itaconate copolymer
514225-71-9P, Acrylamide-2-acrylamido-2-methylpropanesulfonic acid-acrylic acid-sodium acrylate copolymer
RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
PREP (Preparation); USES (Uses)
(high-yield papermaking methods using cationic and amphoteric and inorg. granule-containing anionic polymers)
- IT 9003-39-8, Poly(N-vinylpyrrolidone) 14807-96-6, Talc, uses
26062-79-3, Poly(diallyldimethylammonium chloride)
38599-26-7, Poly(acrylamide-2-methylpropanesulfonic acid)
RL: MOA (Modifier or additive use); USES (Uses)
(high-yield papermaking methods using cationic and amphoteric and inorg. granule-containing anionic polymers)

10/591,654-306094-EIC SEARCH

ACCESSION NUMBER: 2003:111094 HCAPLUS Full-text
 DOCUMENT NUMBER: 138:153962
 TITLE: Water soluble polymer dispersions
 and their production method
 INVENTOR(S): Takeda, Hisao; Sugiyama, Toshiaki
 PATENT ASSIGNEE(S): Hymo Corporation, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003041138	A	20030213	JP 2001-226039	2001 0726

PRIORITY APPLN. INFO.: JP 2001-226039
 <--
 2001
 0726

ED Entered STN: 13 Feb 2003

AB Title dispersions comprise water soluble anionic and/or nonionic polymer particles with particle diameter $\leq 100 \mu\text{m}$ and aqueous salt solution-soluble synthetic polymers and polyalcs. as dispersing agents. Thus, 17.6 g 60% acrylic acid and 189.1 g 50% acrylamide were neutralized with 2.9 g 30% aqueous sodium hydroxide and polymerized in the presence of 18.6 g 20% aqueous anionic polymer solution obtained from 60 mol% sodium hydroxide-neutralized acrylic acid and 2.1 g glycerin to give an aqueous dispersion with polymer particle diameter 2-20 μm , dispersion viscosity 310 mPa-s, and weight average mol. weight 12,000,000.

IT 9035-79-8, Acrylic acid-sodium acrylate copolymer
 27790-23-4D, Itaconic acid-methacrylic acid copolymer,
 salt 30326-74-0D, Methacrylic acid-vinyl
 pyrrolidone copolymer, salt 76404-20-1D,
 2-Acrylamido-2-methylpropanesulfonic acid-methacrylic acid
 copolymer, salt

RL: MOA (Modifier or additive use); USES (Uses)
 (dispersing agent; preparation of
 water soluble polymer dispersions in presence of
 dispersing agents)

RN 9033-79-8 HCAPLUS

CN 2-Propenoic acid, polymer with sodium 2-propenoate (1:1) (CA
 INDEX NAME)

CM 1

CRN 7446-81-3

CMF C3 H4 O2 . Na



● Na

CM 2

CRN 79-10-7

CMF C3 H4 O2



RN 27790-23-4 HCAPLUS

CN Butanedioic acid, 2-methylene-, polymer with 2-methyl-2-propenoic acid (CA INDEX NAME)

CM 1

CRN 97-65-4

CMF C5 H6 O4



CM 2

CRN 79-41-4

CMF C4 H6 O2



RN 30326-74-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



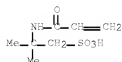
CM 2

CRN 79-41-4

CMF C4 H6 O2



RN 76404-20-1 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, polymer with
 2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-1-propanesulfonic acid
 (CA INDEX NAME)
 CM 1
 CRN 15214-89-8
 CMF C7 H13 N O4 S



CM 2
 CRN 79-41-4
 CMF C4 H6 O2



IT 62649-23-4P 468721-70-2P
 494852-63-0P
 RL: IMF (Industrial manufacture); PRP (Properties); PREP
 (Preparation)
 (preparation of water soluble polymer dispersions
 in presence of dispersing agents)
 RN 62649-23-4 HCAPLUS
 CN 2-Propenoic acid, polymer with 2-propenamide and sodium
 2-propenoate (1:1) (CA INDEX NAME)
 CM 1
 CRN 7446-81-3
 CMF C3 H4 O2 . Na



● Na

CM 2

CRN 79-10-7
CMF C3 H4 O2



CM 3

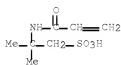
CRN 79-06-1
CMF C3 H5 N O



RN 468721-70-2 HCAPLUS
CN 2-Propenoic acid, polymer with
2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid,
2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid
monosodium salt, 2-propenamide and sodium 2-propenoate (9CI) (CA
INDEX NAME)

CM 1

CRN 15214-89-8
CMF C7 H13 N O4 S



CM 2

CRN 7446-81-3
CMF C3 H4 O2 . Na

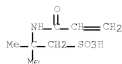


CM 3

10/591,654-306094-EIC SEARCH

CRM 5165-97-9

CMF C7 H13 N O4 S . Na



CM 4

CRM 79-10-7

CMF C3 H4 O2



CM 5

CRM 79-06-1

CMF C3 H5 N O



RN 494852-63-0 HCAPLUS

CM Butanedioic acid, methylene-, polymer with 2-propenamide, 2-propenoic acid, sodium methylenebutanedioate and sodium 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRM 50976-31-3

CMF C5 H6 O4 . x Na



CM 2

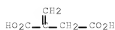
10/591,654-306094-EIC SEARCH

CRN 7446-81-3
 CMF C3 H4 O2 . Na



CM 3

CRN 97-65-4
 CMF C5 H6 O4



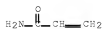
CM 4

CRN 79-10-7
 CMF C3 H4 O2



CM 5

CRN 79-06-1
 CMF C3 H5 N O



IC ICM C08L101-14
 ICS C08F002-20; C08K005-053
 CC 35-4 (Chemistry of Synthetic High Polymers)
 ST water soluble polymer dispersion prodn; sodium
 acrylate acrylic acid copolymer glycerin dispersing
 agent; acrylic acid sodium acrylate acrylamide copolymer
 particle prepn
 IT Polyelectrolytes
 (anionic, optionally dispersing
 agent; preparation of water soluble polymer
 dispersions in presence of dispersing
 agents)
 IT Polyoxalkylenes, uses

10/591,654-306094-EIC SEARCH

- RL: MOA (Modifier or additive use); USES (Uses)
(dispersing agent; preparation of water soluble polymer dispersions in presence of dispersing agents)
- IT Polyoxyalkylenes, uses
RL: MOA (Modifier or additive use); USES (Uses)
(polyalc. derivs., dispersing agent; preparation of water soluble polymer dispersions in presence of dispersing agents)
- IT Alcohols, uses
RL: MOA (Modifier or additive use); USES (Uses)
(polyhydric, dispersing agents; preparation of water soluble polymer dispersions in presence of dispersing agents)
- IT Dispersing agents
(preparation of water soluble polymer dispersions in presence of dispersing agents)
- IT Polymers, preparation
RL: IMF (Industrial manufacture); PRP (Properties); PREP (Preparation)
(water-soluble, optionally dispersing agents; preparation of water soluble polymer dispersions in presence of dispersing agents)
- IT 117397-25-8P
RL: IMF (Industrial manufacture); PRP (Properties); PREP (Preparation)
(dispersing agent; preparation of water soluble polymer dispersions in presence of dispersing agents)
- IT 50-70-4, Sorbitol, uses 50-70-4D, Sorbitol, polyoxyalkylene derivs. 56-81-5, Glycerin, uses 57-55-6, Propylene glycol, uses 107-21-1, Ethylene glycol, uses 115-77-5, Pentaerythritol, uses 115-77-5D, Pentaerythritol, polyoxyalkylene derivs. 9033-79-8, Acrylic acid-sodium acrylate copolymer 25322-68-3, Polyethylene glycol 25322-68-3D, Polyethylene glycol, polyalc. derivs. 25322-69-4, Polypropylene glycol 25322-69-4D, Polypropylene glycol, polyalc. derivs. 27119-07-9D, 2-Acrylamido-2-methylpropanesulfonic acid homopolymer, salt 27790-23-4D, Itaconic acid-methacrylic acid copolymer, salt 30326-74-0D, Methacrylic acid-vinyl pyrrolidone copolymer, salt 31694-55-0, Polyethylene glycol glycerin ether 50851-57-5D, Styrene sulfonic acid homopolymer, salt 53694-15-8, Polyethylene glycol sorbitol ether 61944-28-3D, Butene-maleic anhydride copolymer, salt or amidized 76404-20-1D, 2-Acrylamido-2-methylpropanesulfonic acid-methacrylic acid copolymer, salt
RL: MOA (Modifier or additive use); USES (Uses)
(dispersing agent; preparation of water soluble polymer dispersions in presence of dispersing agents)
- IT 9003-05-8P, Acrylamide homopolymer 62649-23-4P 468721-70-2P 494852-63-0P
RL: IMF (Industrial manufacture); PRP (Properties); PREP (Preparation)
(preparation of water soluble polymer dispersions in presence of dispersing agents)
- IT 40623-73-2D, Acrylamide-2-acrylamido-2-methylpropanesulfonic acid copolymer, salt
RL: MOA (Modifier or additive use); USES (Uses)
(preparation of water soluble polymer dispersions in presence of dispersing agents)

L138 ANSWER 8 OF 22 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2001:10585 HCAPLUS Full-text
DOCUMENT NUMBER: 134:76117
TITLE: Mascaras comprising film-forming

10/591,654-306094-EIC SEARCH

INVENTOR(S): polymers
 Bodelin, Sophie
 PATENT ASSIGNEE(S): L'oreal, Fr.
 SOURCE: Eur. Pat. Appl., 29 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1064919	A1	20010103	EP 2000-401662	2000 0613
EP 1064919	B1	20031119		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
FR 2795635	A1	20010105	FR 1999-8412	1999 0630
FR 2795635	B1	20060915		
AT 254444	T	20031215	AT 2000-401662	2000 0613
ES 2211471	T3	20040716	ES 2000-401662	2000 0613
CA 2340079	A1	20010111	CA 2000-2340079	2000 0620
CA 2340079	C	20070410		
WO 2001001935	A1	20010111	WO 2000-FR1697	2000 0620
W: BR, CA, CN, KR, MX				
BR 2000006902	A	20010612	BR 2000-6902	2000 0620
CN 1195479	C	20050406	CN 2000-801763	2000 0620
JP 2001055310	A	20010227	JP 2000-196939	2000 0629
US 6534047	B1	20030318	US 2000-605435	2000 0629
MX 2001001629	A	20020408	MX 2001-1629	2001 0213
PRIORITY APPLN. INFO.:			FR 1999-8412	A 1999 0630

10/591,654-306094-EIC SEARCH

WO 2000-FR1697

W

2000

0620

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ED Entered STN: 05 Jan 2001

AB Mascaras comprising cationic and anionic polymers and a dispersion of nonionic film-forming polymers, e.g. C1-6 alkyl acrylate polymers are disclosed. A mascara contained carnauba wax 7, bees wax 8, rice bran wax 7, candelilla wax 2.5, 2-amino-2-methylpropane-1,3-diol 0.2, triethanolamine 2.4, stearic acid 5.4, hydrosol. nonionic polymer 1.72, Et acrylate-Me methacrylate copolymer 0.75, dimethicone copolyol 0.2, sodium polymethacrylate 0.25, JR-400 0.1, pigments 6, preservatives and water q.s. 100 g.

IT 9003-01-4, Acrylic acid homopolymer 9003-06-9
 , Acrylic acid acrylamide copolymer 9003-39-8
 , Polyvinylpyrrolidone 25086-15-1, Methacrylic acid
 methyl methacrylate copolymer 25087-26-7,
 Polymethacrylic acid 25212-88-8, Methacrylic acid
 ethyl acrylate copolymer 26062-56-6, Acrylic acid
 ethyl acrylate N-tert-butylacrylamide copolymer
 29297-55-0, Vinylimidazole vinyl pyrrolidone copolymer
 54193-36-1, Sodium polymethacrylate 83120-95-0
 RL: BUU (Biological use, unclassified); BIOL (Biological study);
 USES (Uses)
 (mascaras comprising film-forming polymers)

RN 9003-01-4 HCAPLUS

CN 2-Propenoic acid, homopolymer (CA INDEX NAME)

CM 1

CRN 79-10-7

CMF C3 H4 O2



RN 9003-06-9 HCAPLUS

CN 2-Propenoic acid, polymer with 2-propenamide (CA INDEX NAME)

CM 1

CRN 79-10-7

CMF C3 H4 O2



CM 2

CRN 79-06-1

CMF C3 H5 N O



10/591,654-306094-EIC SEARCH

RN 9003-39-8 HCAPLUS
 CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

CRN 88-12-0
 CMF C6 H9 N O



RN 25086-15-1 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, polymer with methyl 2-methyl-2-propenoate (CA INDEX NAME)

CM 1

CRN 80-62-6
 CMF C5 H8 O2



CM 2

CRN 79-41-4
 CMF C4 H6 O2



RN 25087-26-7 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, homopolymer (CA INDEX NAME)

CM 1

CRN 79-41-4
 CMF C4 H6 O2



RN 25212-88-8 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate (CA INDEX NAME)

CM 1

CRM 140-88-5

CMF C5 H8 O2



CM 2

CRM 79-41-4

CMF C4 H6 O2



RN 26062-56-6 HCAPLUS

CN 2-Propenoic acid, polymer with N-(1,1-dimethylethyl)-2-propenamide
and ethyl 2-propenoate (CA INDEX NAME)

CM 1

CRM 140-88-5

CMF C5 H8 O2



CM 2

CRM 107-58-4

CMF C7 H13 N O



CM 3

CRM 79-10-7

CMF C3 H4 O2



RN 29297-55-0 HCAPLUS
 CN 2-Pyrrolidinone, 1-ethenyl-, polymer with 1-ethenyl-1H-imidazole
 (CA INDEX NAME)

CM 1

CRN 1072-63-5
 CMF C5 H6 N2



CM 2

CRN 98-12-0
 CMF C6 H9 N O



RN 54193-36-1 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, homopolymer, sodium salt (CA INDEX
 NAME)

CM 1

CRN 25087-26-7
 CMF (C4 H6 O2)x
 CCI PMS

CM 2

CRN 79-41-4
 CMF C4 H6 O2

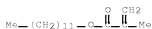


RN 83120-95-0 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with
 1-ethenyl-2-pyrrolidinone and 2-propenoic acid (CA INDEX NAME)

CM 1

CRN 142-90-5

CMF C16 H30 O2



CM 2

CRN 88-12-0

CMF C6 H9 N O



CM 3

CRN 79-10-7

CMF C3 H4 O2



- IC ICM A61K007-06
ICS A61K007-48; A61K007-032
CC 62-3 (Essential Oils and Cosmetics)
IT Polyelectrolytes
(anionic; mascaras comprising film-forming polymers)
IT Polyelectrolytes
(cationic; mascaras comprising film-forming polymers)
IT Polysaccharides, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study);
USES (Uses)
(cationic; mascaras comprising film-forming polymers)
IT Polyoxyalkylenes, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study);
USES (Uses)
(di-Me, Me hydrogen polysiloxane-; mascaras comprising film-forming polymers)
IT Polysiloxanes, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study);
USES (Uses)
(di-Me, Me hydrogen, polyoxyalkylene-; mascaras comprising film-forming polymers)
IT Cosmetics
(emollients; mascaras comprising film-forming polymers)
IT Cosmetics
(emulsions; mascaras comprising film-forming polymers)
IT Cosmetics

10/591,654-306094-EIC SEARCH

(makeups; mascaras comprising film-forming polymers)

IT Perfumes
 Pigments, nonbiological
 Plasticizers
 Preservatives
 Sequestering agents
 Surfactants
 Thickening agents
 (mascaras comprising film-forming polymers)

IT Acids, biological studies
 Acrylic polymers, biological studies
 Alkali metal hydroxides
 Ceramides
 DNA
 Polymers, biological studies
 Polyolefins
 Polysiloxanes, biological studies
 Proteins, general, biological studies
 Trace elements, biological studies
 Vitamins
 Waxes
 RL: BUU (Biological use, unclassified); BIOL (Biological study);
 USES (Uses)
 (mascaras comprising film-forming polymers)

IT Cosmetics
 (mascaras; mascaras comprising film-forming polymers)

IT Liquids
 (oils; mascaras comprising film-forming polymers)

IT Carboxylic acids, biological studies
 RL: BUU (Biological use, unclassified); BIOL (Biological study);
 USES (Uses)
 (polycarboxylic, salts, sodium; mascaras comprising film-forming polymers)

IT Polysiloxanes, biological studies
 RL: BUU (Biological use, unclassified); BIOL (Biological study);
 USES (Uses)
 (polyoxyalkylene-; mascaras comprising film-forming polymers)

IT Polyoxyalkylenes, biological studies
 RL: BUU (Biological use, unclassified); BIOL (Biological study);
 USES (Uses)
 (polysiloxane-; mascaras comprising film-forming polymers)

IT 9003-01-4, Acrylic acid homopolymer 9003-05-8,
 Polyacrylamide 9003-06-9, Acrylic acid acrylamide
 copolymer 9003-16-1, Polyfumaric acid
 9003-39-8, Polyvinylpyrrolidone 9004-34-6D, Cellulose,
 ethers, quaternary salts, biological studies 9010-88-2, Ethyl
 acrylate methyl methacrylate copolymer 9011-16-9, Methyl vinyl
 ether maleic anhydride copolymer 24937-72-2, Polymaleic
 anhydride 25014-12-4, Polymethacrylamide 25086-15-1,
 Methacrylic acid methyl methacrylate copolymer
 25087-26-7, Polymethacrylic acid 25119-64-6,
 Polyitaconic acid 25212-86-8, Methacrylic acid ethyl
 acrylate copolymer 25609-89-6, Crotonic acid vinyl acetate
 copolymer 26062-56-6, Acrylic acid ethyl acrylate
 N-tert-butylacrylamide copolymer 26099-09-2, Polymaleic acid
 29297-55-0, Vinylimidazole vinyl pyrrolidone copolymer
 54193-36-1, Sodium polymethacrylate 81859-24-7, JR 400
 82120-95-0 183151-35-1 185458-93-9
 RL: BUU (Biological use, unclassified); BIOL (Biological study);
 USES (Uses)
 (mascaras comprising film-forming polymers)

OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE
 THIS RECORD (14 CITINGS)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE

10/591,654-306094-EIC SEARCH

IN THE RE FORMAT

L138 ANSWER 9 OF 22 HCAPLUS COPYRIGHT 2009 ACS ON STN
 ACCESSION NUMBER: 2000:808554 HCAPLUS Full-text
 DOCUMENT NUMBER: 133:351263
 TITLE: Mixtures of water-dispersible,
 silicon-modified comb polymers and
 physiologically acceptable anionic
 or amphoteric polymers for use in hair
 preparations
 INVENTOR(S): Koller, Andreas; Detert, Marion
 PATENT ASSIGNEE(S): Beiersdorf Aktiengesellschaft, Germany
 SOURCE: Eur. Pat. Appl., 27 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1052267	A2	20001115	EP 2000-110019	2000 0512
EP 1052267	A3	20001122		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
DE 19922293	A1	20001116	DE 1999-19922293	1999 0514
PRIORITY APPLN. INFO.:			DE 1999-19922293	A 1999 0514

ED Entered STN: 17 Nov 2000
 AB The title comps. contain comb polymers having main chains bonded via ester groups to polyester side chains containing sulfo and silicone groups. A comb polymer was prepared by heating isophthalic acid 282.4, di-Me Na 5-sulfoisophthalate 88.80, polysiloxane diol (mol. weight 4000) 40.00, poly(acrylic acid) (mol. weight 25,000) 3.00, 1,2-propanediol 104.62, diethylene glycol 119.25, Na2CO3 0.60, and (iso-PrO)4Ti 0.60 g at 170-220° with distillation of volatiles and then at 220° in vacuo. Use of the products in hair foams and styling gels is exemplified.
 IT 9003-01-4DP, Poly(acrylic acid), reaction products with polyesters and polysiloxane diols
 9003-39-8P, Luviskol K 30 25086-89-9P,
 Luviskol VA 37E 25189-83-7F, Luviskol Plus
 RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); POF (Polymer in formulation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (mixts. of water-dispersible, silicon-modified comb polymers and physiol. acceptable anionic or amphoteric polymers for use in hair preps.)
 RN 9003-01-4 HCAPLUS
 CN 2-Propenoic acid, homopolymer (CA INDEX NAME)
 CM 1
 CRN 79-10-7
 CME C3 H4 O2



RN 9003-39-8 HCAPLUS
 CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

CRN 88-12-0
 CMF C6 H9 N O



RN 25086-89-9 HCAPLUS
 CN Acetic acid ethenyl ester, polymer with 1-ethenyl-2-pyrrolidinone
 (CA INDEX NAME)

CM 1

CRN 108-05-4
 CMF C4 H6 O2



CM 2

CRN 88-12-0
 CMF C6 H9 N O



RN 25189-83-7 HCAPLUS
 CN 2H-Azepin-2-one, 1-ethenylhexahydro-, homopolymer (CA INDEX NAME)

CM 1

CRN 2235-00-9
 CMF C8 H13 N O



IT 26124-25-4, Vinyl acetate-vinyl
 propionate-N-vinylpyrrolidinone copolymer
 RL: BUU (Biological use, unclassified); POF (Polymer in
 formulation); BIOL (Biological study); USES (Uses)
 (mixts. of water-dispersible, silicon-modified comb
 polymers and physiol. acceptable anionic or
 amphoteric polymers for use in hair preps.)
 RN 26124-25-4 HCAPLUS
 CN Propanoic acid, ethenyl ester, polymer with ethenyl acetate and
 1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

CRN 108-05-4

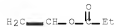
CMF C4 H6 O2



CM 2

CRN 105-38-4

CMF C5 H8 O2



CM 3

CRN 88-12-0

CMF C6 H9 N O



IC ICM C08G063-695
 ICS C08G063-688; A61K007-06
 CC 38-3 (Plastics Fabrication and Uses)
 Section cross-reference(s): 35, 62
 ST comb polymer hair prep; polyester comb polymer;
 polyacrylic acid comb polymer; polysiloxane diol comb polymer;
 foam hair comb polymer; styling gel hair comb polymer; blend

polymer hair prepns
 Polymers, uses
 IT RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); POF (Polymer in formulation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (comb; mixts. of water-dispersible, silicon-modified comb polymers and physiol. acceptable anionic or amphoteric polymers for use in hair prepns.)

IT Polysiloxanes, uses
 RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); POF (Polymer in formulation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (diols, reaction products with polyesters and poly(acrylic acid); mixts. of water-dispersible, silicon-modified comb polymers and physiol. acceptable anionic or amphoteric polymers for use in hair prepns.)

IT Hair preparations
 (mixts. of water-dispersible, silicon-modified comb polymers and physiol. acceptable anionic or amphoteric polymers for use in hair prepns.)

IT Polymer blends
 RL: BUU (Biological use, unclassified); POF (Polymer in formulation); BIOL (Biological study); USES (Uses)
 (mixts. of water-dispersible, silicon-modified comb polymers and physiol. acceptable anionic or amphoteric polymers for use in hair prepns.)

IT 9003-01-4DP, Poly(acrylic acid), reaction products with polyesters and polysiloxane diols
 9003-39-8P, Luviskol K 30 25086-89-9P, Luviskol VA 37E 25189-83-7F, Luviskol Plus 300663-44-9DP, 1,4-Cyclohexanedicarboxylic acid-diethylene glycol-Li 5-sulfoisophthalate-isophthalic acid-1,2-propanediol copolymer, reaction products with poly(acrylic acid) and polysiloxane diols 306771-64-2DP, reaction products with poly(acrylic acid) and polysiloxane diols 306771-67-5DP, 1,4-Cyclohexanedicarboxylic acid-diethylene glycol-dimethyl sodium 5-sulfoisophthalate-isophthalic acid-1,2-propanediol copolymer, reaction products with poly(acrylic acid) and polysiloxane diols 306771-71-1DP, 1,4-Cyclohexanedicarboxylic acid-1,4-cyclohexanedimethanol-diethylene glycol-dimethyl sodium 5-sulfoisophthalate-Li 5-sulfoisophthalate-isophthalic acid-pentaerythritol-1,2-propanediol copolymer, reaction products with poly(acrylic acid) and polysiloxane diols 306773-13-7DP, Silwet 867, reaction products with polyesters and poly(acrylic acid)
 RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); POF (Polymer in formulation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (mixts. of water-dispersible, silicon-modified comb polymers and physiol. acceptable anionic or amphoteric polymers for use in hair prepns.)

IT 26124-25-4, Vinyl acetate-vinyl propionate-N-vinylpyrrolidinone copolymer 72018-12-3, Poly(N-vinylformamide)
 RL: BUU (Biological use, unclassified); POF (Polymer in formulation); BIOL (Biological study); USES (Uses)
 (mixts. of water-dispersible, silicon-modified comb polymers and physiol. acceptable anionic or amphoteric polymers for use in hair prepns.)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/591,654-306094-EIC SEARCH

ACCESSION NUMBER: 2000:368068 HCAPLUS Full-text
 DOCUMENT NUMBER: 133:9129
 TITLE: Dispersible phospholipid stabilized microparticles
 INVENTOR(S): Parikh, Indu; Mishra, Awadhesh K.; Donga, Robert; Vachon, Michael G.
 PATENT ASSIGNEE(S): RTP Pharma Inc., USA
 SOURCE: PCT Int. Appl., 19 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000030616	A1	20000602	WO 1999-US27436	1999 1119
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W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VI, YU, ZA, ZW RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2349203	A1	20000602	CA 1999-2349203	1999 1119
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EP 1133281	A1	20010919	EP 1999-960498	1999 1119
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO BR 9915738 A 20011002 BR 1999-15738				
<--				
HU 2001005089	A2	20020529	HU 2001-5089	1999 1119
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HU 2001005089	A3	20020930		
US 20020106403	A1	20020808	US 1999-443863	1999 1119
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EE 200100269	A	20020815	EE 2001-269	1999 1119
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JP 2002530321	T	20020917	JP 2000-583500	1999 1119
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NZ 511792	A	20030829	NZ 1999-511792	1999 1119
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AU 767154	B2	20031030	AU 2000-17375	

10/591,654-306094-EIC SEARCH

					1999
					1119
			<--		
RU 2233654	C2	20040810	RU 2001-116719		1999
					1119
			<--		
CN 1287769	C	20061206	CN 1999-815645		1999
					1119
			<--		
NO 2001002467	A	20010718	NO 2001-2467		2001
					0518
			<--		
ZA 2001004069	A	20030107	ZA 2001-4069		2001
					0518
			<--		
MX 2001004991	A	20030414	MX 2001-4991		2001
					0518
			<--		
BG 105573	A	20020131	BG 2001-105573		2001
					0607
			<--		
BG 65254	B1	20071031			
HK 1042856	A1	20070727	HK 2002-104730		2002
					0625
			<--		
US 20030206949	A1	20031106	US 2003-443772		2003
					0523
			<--		
PRIORITY APPLN. INFO.:			US 1998-109202P	P	1998
					1120
			<--		
			US 1999-443863	A1	1999
					1119
			<--		
			WO 1999-US27436	W	1999
					1119
			<--		
ED	Entered STN: 04 Jun 2000				
AB	Rapidly dispersing solid dry therapeutic dosage form comprises a water-insol. compound existing as a nanometer or micrometer particulate solid which is surface stabilized by the presence of at least 1 phospholipid, the particulate solid being dispersed throughout a bulking matrix. When the dosage form is introduced into an aqueous environment the bulking matrix is substantially completely dissolved within <2 min thereby releasing the water insol. particulate solid in an unaggregated and/or unagglomerated state. The matrix is composed of a water-insol. substance or therapeutically useful water-insol. or poorly water-soluble compound, a phospholipid and optionally also at least 1 nonionic, anionic, cationic or amphipathic surfactant, together with a matrix or bulking agent and if needed a release agent. The volume weighted mean particle size of the water insol. particle is $\leq 5 \mu\text{m}$. Thus, a solid dosage form contained Phospholipon 100H 5.6, Tween-80 5.6, fenofibrate 27.8, and mannitol 61.0% by weight				
IT	79-10-7D, Acrylic acid, esters, polymers				
	9003-39-8, PVP				
	RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)				
	(dispersible phospholipid stabilized microparticles)				

10/591,654-306094-EIC SEARCH

RN 79-10-7 HCAPLUS
 CN 2-Propenoic acid (CA INDEX NAME)



RN 9003-39-8 HCAPLUS
 CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

CRM 88-12-0
 CMF C6 H9 N O



IC ICM A61K009-14
 ICS A61K009-19
 CC 63-6 (Pharmaceuticals)
 IT Surfactants
 (anionic; dispersible phospholipid stabilized microparticles)
 IT 50-70-4, Sorbitol, biological studies 50-99-7, Dextrose, biological studies 56-81-5, Glycerol, biological studies 57-50-1, Sucrose, biological studies 57-55-6, Propylene glycol, biological studies 63-42-3, Lactose 69-65-8, Mannitol 69-79-4, Maltose 79-10-7D, Acrylic acid, esters, polymers 99-20-7, Trehalose 9003-39-8, PVP 9004-34-6D, Cellulose, derivs., biological studies 9004-54-0, Dextran, biological studies 9004-64-2, Hydroxypropyl cellulose 9004-67-5, Methyl Cellulose 9005-25-8, Starch, biological studies 25322-68-3, Polyethylene glycol 37353-59-6, Hydroxymethyl Cellulose 49562-28-9, Fenofibrate 59865-13-3, Cyclosporine A 84625-61-6, Itraconazole 106392-12-5, Poloxamer 132703-01-6, Phospholipon 100H
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (dispersible phospholipid stabilized microparticles)
 OS.CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)
 REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L138 ANSWER 11 OF 22 HCAPLUS COPYRIGHT 2009 ACS ON STN
 ACCESSION NUMBER: 1999:752945 HCAPLUS Full-text
 DOCUMENT NUMBER: 131:352874
 TITLE: Water-soluble granulate of phthalocyanine compounds, its preparation and use
 INVENTOR(S): Kvita, Petr; Dreyer, Pierre
 PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
 SOURCE: Eur. Pat. Appl., 34 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1

10/591,654-306094-EIC SEARCH

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 959123	A1	19991124	EP 1999-810412	1999 0510
EP 959123	B1	20040728	<--	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
AT 272104	T	20040815	AT 1999-810412	1999 0510
ES 2226324	T3	20050316	ES 1999-810412	1999 0510
US 6291412	B1	20010918	US 1999-312228	1999 0514
CN 1236006	A	19991124	CN 1999-108092	1999 0517
CN 1127563	C	20031112	<--	
AU 9929074	A	19991125	AU 1999-29074	1999 0517
AU 756263	B2	20030109	<--	
IN 1999MA00562	A	20061124	IN 1999-MA562	1999 0517
BR 9902091	A	20000118	BR 1999-2091	1999 0518
PRIORITY APPLN. INFO.:			EP 1998-810459	A 1998 0518
			<--	

OTHER SOURCE(S): MARPAT 131:352874

ED Entered STN: 26 Nov 1999

AB The fast-dissolving granules, useful as photobleaching activators in laundry detergents, comprise (1) a water-soluble phthalocyanine 2-50, (2) an anionic dispersant 10-95, (3) water-soluble organic polymers 0-25, (4) other additives 0-10, and (5) water 3-15 weight%. Thus, 725 g of a 20% aqueous solution of the Na salt of sulfonated Zn phthalocyanine (3-4 SO₃Na groups/mol.) was mixed thoroughly with 3010 g 40% aqueous solution of naphthalenesulfonic acid-HCHO condensate for 1 h at 25°, then spray-dried with 195° air to give free-flowing 50-µm granules with residual H₂O content 7% and phthalocyanine content 10%.

IT 9003-04-7, Sodium polyacrylate 9003-39-8
 25085-34-1 25086-89-9 30581-59-0
 54193-36-1, Sodium polymethacrylate 55989-05-4
 , Ethyl acrylate-methacrylic acid-methyl methacrylate copolymer
 ammonium salt 102972-64-5,
 (Dimethylamino)ethyl methacrylate-vinylcaprolactam
 -N-vinyl-2-pyrrolidinone copolymer 131954-48-8
 132230-28-5, N-[3-(Dimethylamino)propyl]methacrylamide-N-
 vinyl-2-pyrrolidinone copolymer 158830-23-0
 RL: MOA (Modifier or additive use); USES (Uses)

10/591,654-306094-EIC SEARCH

(water-soluble granulate of phthalocyanine compds. as detergent additive)

RN 9003-04-7 HCAPLUS

CN 2-Propenoic acid, homopolymer, sodium salt (CA INDEX NAME)

CM 1

CRM 9003-01-4

CMF (C3 H4 O2)x

CCI PMS

CM 2

CRM 79-10-7

CMF C3 H4 O2



RN 9003-39-8 HCAPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

CRM 98-12-0

CMF C6 H9 N O



RN 25085-34-1 HCAPLUS

CN 2-Propenoic acid, polymer with ethenylbenzene (CA INDEX NAME)

CM 1

CRM 100-42-5

CMF C8 H8



CM 2

CRM 79-10-7

CMF C3 H4 O2



10/591,654-306094-EIC SEARCH

RN 25086-89-9 HCAPLUS
 CN Acetic acid ethenyl ester, polymer with 1-ethenyl-2-pyrrolidinone
 (CA INDEX NAME)

CM 1

CRN 108-05-4

CMF C4 H6 O2



CM 2

CRN 88-12-0

CMF C6 H9 N O

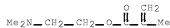


RN 30581-59-0 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer
 with 1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

CRN 2867-47-2

CMF C8 H15 N O2



CM 2

CRN 88-12-0

CMF C6 H9 N O



RN 54193-36-1 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, homopolymer, sodium salt (CA INDEX

10/591,654-306094-EIC SEARCH

NAME)

CM 1

CRN 25087-26-7
 CMF (C4 H6 O2)x
 CCI PMS

CM 2

CRN 79-41-4
 CMF C4 H6 O2



RN 55989-05-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate and
 methyl 2-methyl-2-propenoate, ammonium salt (CA INDEX NAME)

CM 1

CRN 25133-97-5
 CMF (C5 H8 O2 . C5 H8 O2 . C4 H6 O2)x
 CCI PMS

CM 2

CRN 140-88-5
 CMF C5 H8 O2



CM 3

CRN 80-62-6
 CMF C5 H8 O2



CM 4

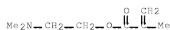
CRN 79-41-4
 CMF C4 H6 O2



RN 102972-64-5 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer
 with 1-ethenylhexahydro-2H-azepin-2-one and
 1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

CRN 2867-47-2
 CMF C8 H15 N O2



CM 2

CRN 2235-00-9
 CMF C8 H13 N O



CM 3

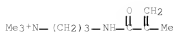
CRN 88-12-0
 CMF C6 H9 N O



RN 131954-48-8 HCAPLUS
 CN 1-Propanaminium, N,N,N-trimethyl-3-[(2-methyl-1-oxo-2-propen-1-yl)amino]-, chloride (1:1), polymer with 1-ethenyl-2-pyrrolidinone
 (CA INDEX NAME)

CM 1

CRN 51410-72-1
 CMF C10 H21 N2 O . C1



CM 2

CRN 88-12-0

CMF C6 H9 N O



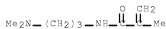
RN 132230-28-5 HCAPLUS

CN 2-Propenamide, N-[3-(dimethylamino)propyl]-2-methyl-, polymer with 1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

CRN 5205-93-6

CMF C9 H18 N2 O



CM 2

CRN 88-12-0

CMF C6 H9 N O



RN 158830-23-0 HCAPLUS

CN 2-Propenamide, N-[3-(dimethylamino)propyl]-, polymer with 1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

CRN 3845-76-9

CMF C8 H16 N2 O



CM 2

CRN 88-12-0

CMF C6 H9 N O



- IC ICM C11D003-00
ICS C11D003-39; C11D003-395
- CC 46-5 (Surface Active Agents and Detergents)
- IT Dispersing agents
(anionic; in water-soluble granulate of phthalocyanine compds. as detergent additive)
- IT Drying
(fluidized-bed; in preparation of water-soluble granulate of phthalocyanine compds. as detergent additive)
- IT Drying
(spray; in preparation of water-soluble granulate of phthalocyanine compds. as detergent additive)
- IT 92-52-4D, Biphenyl, chloromethylated, condensation products with sulfonated naphthalene 5138-18-1D, dialkyl esters, sodium salt 8061-51-6, Sodium ligninsulfonate 9017-33-8, Formaldehyde-naphthalenesulfonic acid copolymer 25155-19-5D, Naphthalenesulfonic acid, alkyl derivs., sodium salt 58226-28-1
RL: MOA (Modifier or additive use); USES (Uses)
(dispersant; water-soluble granulate of phthalocyanine compds. as detergent additive)
- IT 110-16-7D, Maleic acid, polymers with unsatd. hydrocarbons, sodium salt 9002-89-5, Poly(vinyl alcohol) 9003-04-7, Sodium polyacrylate 9003-05-8 9003-20-7D, Poly(vinyl acetate), saponified 9003-39-8 9004-32-4 24980-41-4, Polycaprolactone 25085-34-1 25086-89-9 25248-42-4, Polycaprolactone 30581-59-0 37353-59-6, Hydroxymethyl cellulose 54193-36-1, Sodium polymethacrylate 55989-05-4, Ethyl acrylate-methacrylic acid-methyl methacrylate copolymer ammonium salt 102972-64-5, (Dimethylamino)ethyl methacrylate-vinylcaprolactam-N-vinyl-2-pyrrolidinone copolymer 131954-48-3 132230-28-5, N-[3-(Dimethylamino)propyl]methacrylamide-N-vinyl-2-pyrrolidinone copolymer 158830-23-0
RL: MOA (Modifier or additive use); USES (Uses)
(water-soluble granulate of phthalocyanine compds. as detergent additive)
- IT 14320-04-8D, Zinc phthalocyanine, sulfonated, sodium salt 84370-49-0D, sulfonated, sodium salt
RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(water-soluble granulate of phthalocyanine compds. as detergent additive)

10/591,654-306094-EIC SEARCH

OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L138 ANSWER 12 OF 22 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1998:779503 HCAPLUS Full-text
 DOCUMENT NUMBER: 130:83894
 TITLE: Water-dispersible lubricants for plastic working of metals
 INVENTOR(S): Sakai, Kenji; Goto, Koichi; Aizawa, Yuji
 PATENT ASSIGNEE(S): Kyodo Oil and Fats Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10316989	A	19981202	JP 1998-67986	1998 0318
<--				
PRIORITY APPLN. INFO.:			JP 1997-64031	A 1997 0318
<--				

ED Entered STN: 14 Dec 1998

AB Water-dispersible lubricants for plastic working of metals are prepared by dispersing (a) inorg. solid lubricant (S) in a base oil (O) containing 2l of highly basic alkali and alkaline earth metal salts of organic acids to form an S/O-type dispersion and further dispersing the dispersion in water using surfactants to give S/O/W-type water-dispersible lubricants.

IT 9003-39-8, Polyvinyl pyrrolidone
 RL: MOA (Modifier or additive use); USES (Uses)
 (water-dispersible lubricants for plastic working of metals)

RN 9003-39-8 HCAPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



IC ICM C10M173-00
 ICS C10M103-00; C10M103-06; C10M159-20

CC 51-8 (Fossil Fuels, Derivatives, and Related Products)
 Section cross-reference(s): 55

ST lubricant water dispersion plastic working metal

IT Fats and Glyceridic oils, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (animal; water-dispersible lubricants for plastic

working of metals)

IT Surfactants
(anionic; water-dispersible lubricants for plastic working of metals)

IT Carboxylic acids, uses
Sulfonic acids, uses
RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
(calcium salts, overbased; water-dispersible lubricants for plastic working of metals)

IT Lubricating oils
Lubricating oils
(metalworking, water-based emulsions; water-dispersible lubricants for plastic working of metals)

IT Surfactants
(nonionic, ethers and esters; water-dispersible lubricants for plastic working of metals)

IT Sulfonic acids, uses
RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
(sodium salts, surfactants; water-dispersible lubricants for plastic working of metals)

IT Bentonite, uses
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(surface-treated, solid lubricant; water-dispersible lubricants for plastic working of metals)

IT Fats and Glyceridic oils, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(vegetable; water-dispersible lubricants for plastic working of metals)

IT 4719-04-4, Grotan BK 7779-27-3, Vancide TH
RL: MOA (Modifier or additive use); USES (Uses)
(antiseptics; water-dispersible lubricants for plastic working of metals)

IT 70024-57-6, Trimethylolpropane oleate
RL: TEM (Technical or engineered material use); USES (Uses)
(base oil; water-dispersible lubricants for plastic working of metals)

IT 10043-11-5, Boron nitride, uses
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(solid lubricant; water-dispersible lubricants for plastic working of metals)

IT 471-34-1, Calcium carbonate, uses 12174-53-7, Sericite
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(surface-treated, solid lubricant; water-dispersible lubricants for plastic working of metals)

IT 143-19-1, Sodium oleate 9016-45-9 9062-90-2, Polyethylene glycol sorbitan oleate 218619-62-6
RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
(surfactant; water-dispersible lubricants for plastic working of metals)

IT 68-04-2, Sodium citrate 108-30-5D, Succinic anhydride, alkenyl derivs. 9903-39-8, Polyvinyl pyrrolidone 22207-58-5
23311-84-4, Sodium adipate 51305-33-0, Sodium trimellitate 175834-20-5, Bryton C 400 187112-05-6, ADX 410J 187112-34-1, Lubrizol 5341 218903-10-7, Lubrizol 5183A
RL: MOA (Modifier or additive use); USES (Uses)
(water-dispersible lubricants for plastic working of metals)

IT 218903-67-4, Rheolate 350
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(water-dispersible lubricants for plastic working of

10/591,654-306094-EIC SEARCH

metals)
 IT 108-95-2D, Phenol, derivs., calcium salts, overbased, uses
 RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
 (water-dispersible lubricants for plastic working of metals)
 IT 77-99-6D, Trimethylolpropane, fatty acid esters 115-77-5D, Pentaerythritol, fatty acid esters
 RL: TEM (Technical or engineered material use); USES (Uses)
 (water-dispersible lubricants for plastic working of metals)
 OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L138 ANSWER 13 OF 22 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1996:357037 HCAPLUS Full-text
 DOCUMENT NUMBER: 125:41422
 ORIGINAL REFERENCE NO.: 125:7873a,7876a
 TITLE: Hair preparations containing water-insoluble polyurethanes and water-soluble polymers

INVENTOR(S): Emmerling, Winfried; Hofman, Hans-Peter; Schieferstein, Ludwig
 PATENT ASSIGNEE(S): Henkel KGaA, Germany
 SOURCE: Ger. Offen., 6 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4438846	A1	19960509	DE 1994-4438846	1994 1102
WO 9614049	A1	19960517	WO 1995-EP4160	1995 1024
<--				
W: CA, CH, CZ, FI, HU, JP, KR, PL, RU, SI, SK, US RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 789549	A1	19970820	EP 1995-937829	1995 1024
<--				
EP 789549	B1	20010110		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, PT, SE				
AT 198543	T	20010115	AT 1995-937829	1995 1024
<--				
ES 2153501	T3	20010301	ES 1995-937829	1995 1024
<--				
PT 789549	T	20010430	PT 1995-937829	1995 1024
<--				
GR 3035400	T3	20010531	GR 2001-400228	2001 0209

10/591,654-306094-EIC SEARCH

PRIORITY APPLN. INFO.: DE 1994-4438846 A 1994
 1102
 <--
 WO 1995-EP4160 W 1995
 1024
 <--
 ED Entered STN: 20 Jun 1996
 AB Water-insol. polyurethanes, as film-forming components in hair preps., are more readily washed out of the hair if combined with water-soluble polymers. The water-soluble polymer may be nonionic, anionic, amphoteric, or zwitterionic. Thus, a pump spray contained Alberdingk U500 (40% aqueous dispersion of anionic polyether-polyurethane) 10.0, Luviskol VA64 10.0, panthenol 0.1, perfume oil 0.15, Cremophor RH40 0.4, and water to 100 weight parts.
 IT 9003-39-8, PVP 25086-89-9, Luviskol VA 64
 67016-70-0, Amphomer LV 71
 RL: BUU (Biological use, unclassified); BIOL (Biological study);
 USES (Uses)
 (hair preps. containing water-insol. polyurethanes and water-soluble polymers)
 RN 9003-39-8 HCAPLUS
 CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)
 CM 1
 CRN 88-12-0
 CMF C6 H9 N O



RN 25086-89-9 HCAPLUS
 CN Acetic acid ethenyl ester, polymer with 1-ethenyl-2-pyrrolidinone (CA INDEX NAME)
 CM 1
 CRN 108-05-4
 CMF C4 H6 O2



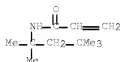
CM 2
 CRN 88-12-0
 CMF C6 H9 N O



RN 67016-70-0 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, 2-[(1,1-dimethylethyl)amino]ethyl
 ester, polymer with 2-hydroxypropyl 2-methyl-2-propenoate, methyl
 2-methyl-2-propenoate, 2-propenoic acid and
 N-(1,1,3,3-tetramethylbutyl)-2-propenamide (CA INDEX NAME)

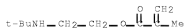
CM 1

CRN 4223-03-4
 CMF C11 H21 N O



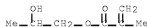
CM 2

CRN 3775-90-4
 CMF C10 H19 N O2



CM 3

CRN 923-26-2
 CMF C7 H12 O3



CM 4

CRN 80-62-6
 CMF C5 H8 O2



CM 5

CRM 79-10-7
CMF C3 H4 O2

IC ICM A61K007-08
ICS A61K007-11
ICA C08L075-04; C08L039-06
CC 62-3 (Essential Oils and Cosmetics)
Section cross-reference(s): 38
ST hair prepn polyurethane Luviskol; polymer water soluble
hair prepn; urethane polymer Luviskol hair prepn
IT Hair preparations
(hair prepn. containing water-insol. polyurethanes and
water-soluble polymers)
IT Urethane polymers
RL: BUU (Biological use, unclassified); REM (Removal or disposal);
BIOL (Biological study); PROC (Process); USES (Uses)
(hair prepn. containing water-insol. polyurethanes and
water-soluble polymers)
IT Zwitterionic compounds
RL: BUU (Biological use, unclassified); BIOL (Biological study);
USES (Uses)
(polymers; hair prepn. containing water-insol.
polyurethanes and water-soluble polymers)
IT Polymers
RL: BUU (Biological use, unclassified); BIOL (Biological study);
USES (Uses)
(water-soluble; hair prepn. containing water-insol.
polyurethanes and water-soluble polymers)
IT Polyelectrolytes
(amphoteric, hair prepn. containing water-insol.
polyurethanes and water-soluble polymers)
IT Polyelectrolytes
(anionic, hair prepn. containing water-insol.
polyurethanes and water-soluble polymers)
IT 557-75-5, Vinyl alcohol, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study);
USES (Uses)
(esters, polymers with vinylpyrrolidone; hair prepn.
containing water-insol. polyurethanes and water-soluble polymers)
IT 88-12-0D, polymers with vinyl esters 9003-39-8, PVP
25086-89-9, Luviskol VA 64 67016-70-0,
Amphomer LV 71
RL: BUU (Biological use, unclassified); BIOL (Biological study);
USES (Uses)
(hair prepn. containing water-insol. polyurethanes and
water-soluble polymers)
IT 177772-07-5, Alberdingk U 500
RL: BUU (Biological use, unclassified); REM (Removal or disposal);
BIOL (Biological study); PROC (Process); USES (Uses)
(hair prepn. containing water-insol. polyurethanes and
water-soluble polymers)
OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE
THIS RECORD (3 CITINGS)

10/591,654-306094-EIC SEARCH

L138 ANSWER 14 OF 22 HCAPLUS COPYRIGHT 2009 ACS ON STN
 ACCESSION NUMBER: 1994:307075 HCAPLUS Full-text
 DOCUMENT NUMBER: 120:307075
 ORIGINAL REFERENCE NO.: 120:53877a,53880a
 TITLE: Hair conditioning shampoos containing anionic
 surfactants and cationic polymers
 INVENTOR(S): Reich, Charles; Cheng, Wei Ming; Robbins,
 Clarence R.; Patel, Amrit
 PATENT ASSIGNEE(S): Colgate-Palmolive Co., USA
 SOURCE: PCT Int. Appl., 19 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9406403	A1	19940331	WO 1993-US8823	1993 0922
W: AU, BB, BG, BR, BY, CA, CZ, FI, HU, JP, KP, KR, KZ, LK, MG, MN, MW, NO, NZ, PL, PT, RO, RU, SD, SK, UA, VN RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
ZA 9306926	A	19950320	ZA 1993-6926	1993 0920
AU 9349285	A	19940412	AU 1993-49285	1993 0922
AU 674340	B2	19961219		
CN 1087513	A	19940608	CN 1993-117882	1993 0922
EP 661962	A1	19950712	EP 1993-921663	1993 0922
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, PT, SE PRIORITY APPLN. INFO.: US 1992-948517 A				
			US 1993-118412	1993 0913
			WO 1993-US8823	1993 0922
ED Entered STN: 11 Jun 1994 AB A hair conditioning shampoo in stable emulsion or suspension form comprises (1) 5-40% of ≥ 1 anionic surfactant, (2) 0.01-5% of a vinyl-type cationic polymer having a hair conditioning effect and a charge d. 150-400, (3) 0.1-10% of ≥ 1 dispersed water-insol. hair conditioning agent, (4) 0.5-10% of ≥ 1 dispersing agent to stabilize the emulsion or suspension, and (5) the remainder water. For example, a shampoo contained ammonium lauryl sulfate 7.5, Na deceth-3-sulfate 7.5, cocodiethanolamide 4.0, di-Me siloxanes				

10/591,654-306094-EIC SEARCH

4.0, Polymer JR-400 0.3, guar hydroxypropyltrimonium chloride 0.7, distearyldimonium chloride 0.5, C20-40 alc. 3.0, NaH2PO4 0.2, perfumes 0.6, preservatives 0.5, Na cumene sulfonate 1.5, and water to 100%.

IT 25136-75-8, Acrylic
acid-acrylamide-diallyldimethylammonium chloride copolymer
95144-24-4
RL: BIOL (Biological study)
(conditioning shampoos containing)

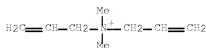
RN 25136-75-8 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propen-1-yl-, chloride (1:1),
polymer with 2-propenamide and 2-propenoic acid (CA INDEX NAME)

CM 1

CRN 7398-69-8

CMF C8 H16 N . Cl



CM 2

CRN 79-10-7

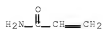
CMF C3 H4 O2



CM 3

CRN 79-06-1

CMF C3 H5 N O



RN 95144-24-4 HCAPLUS

CN 1H-Imidazolium, 1-ethenyl-3-methyl-, chloride (1:1), polymer with
1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

CRN 13474-25-4

CMF C6 H9 N2 . Cl



CM 2

CRM 88-12-0

CMF C6 H9 N O



IC ICM A61K007-06
ICS A61K007-50
CC 62-3 (Essential Oils and Cosmetics)
IT Shampoos
(conditioning, anionic surfactants and cationic
polymers and conditioning agents and dispersing
agents in)
IT 25136-75-8, Acrylic
acid-acrylamide-diallyldimethylammonium chloride copolymer
26590-05-6, Acrylamide-dimethyldiallyl ammonium chloride copolymer
95144-24-4
RL: BIOL (Biological study)
(conditioning shampoos containing)
OS.CITING REF COUNT: 18 THERE ARE 18 CAPLUS RECORDS THAT CITE
THIS RECORD (18 CITINGS)
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L138 ANSWER 15 OF 22 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1994:137317 HCAPLUS Full-text
DOCUMENT NUMBER: 120:137317
ORIGINAL REFERENCE NO.: 120:24161a,24164a
TITLE: Water-thinned anionic pigment
dispersions
INVENTOR(S): Tsunoda, Minoru; Harakawa, Hiromi; Inoe,
Yutaka
PATENT ASSIGNEE(S): Kansai Paint Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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10/591,654-306094-EIC SEARCH

JP 05222335

A

19930831

JP 1992-59584

1992
0213

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JP 3061926

B2

20000710

JP 1992-59584

1992
0213

PRIORITY APPLN. INFO.:

<--

ED Entered STN: 19 Mar 1994

AB The title dispersions, showing good storage stability and giving glossy coatings, comprise pigments and anionic dispersants prepared by polymerizing vinyl monomers containing carboxy, basic, polyoxyalkylene, and C₂-8 alkyl groups, neutralizing, and mixing with water. A mixture of 2-ethylhexyl methacrylate 20, N-vinylpyrrolidone 15, acrylic acid 6, H₂C:CMC₂O₂C₂H₄O(COC₅H₁₀O)6H 25, Blemmer AE 350 10, Me methacrylate 10, styrene 16, and AIBN 2 parts was added dropwise to 100 parts butyl Cellosolve at 120°, heated at 120° with addition of AIBN, and neutralized with triethanolamine to give a 15% aqueous copolymer (I) solution. An aqueous dispersion containing 10 parts I and 100 parts R 602 (TiO₂), showing good storage stability, was mixed (220 parts) with 100 parts clear coat composition, coated on glass, and heated at 140° to give a coating with gloss 93.7%.

IT 153314-57-9P

RL: PREP (Preparation)

(preparation of, as dispersants for pigments, for glossy coatings)

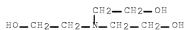
RN 153314-57-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with ethenylbenzene, 1-ethenyl-2-pyrrolidinone, α-(2-methyl-1-oxo-2-propenyl)-ω-hydroxypoly(oxy-1,2-ethanediy1), α-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-ω-hydroxypoly[oxy(1-oxo-1,6-hexanediy1)] and 2-propenoic acid, compd. with 2,2',2''-nitritoltris[ethanol] (9CI) (CA INDEX NAME)

CM 1

CRN 102-71-6

CMF C6 H15 N O3



CM 2

CRN 153314-56-8

CMF (C8 H8 . (C6 H10 O2)n C6 H10 O3 . C6 H9 N O . C5 H8 O2 . C3 H4 O2 . (C2 H4 O)n C4 H6 O2)x

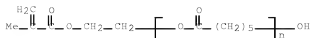
CCI PMS

CM 3

CRN 81984-60-3

CMF (C6 H10 O2)n C6 H10 O3

CCI PMS

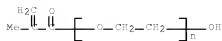


CM 4

CRN 25736-86-1

CMF (C2 H4 O)_n C4 H6 O2

CCI PMS



CM 5

CRN 100-42-5

CMF C8 H8



CM 6

CRN 88-12-0

CMF C6 H9 N O



CM 7

CRN 80-62-6

CMF C5 H8 O2



CM 8

CRN 79-10-7

CMF C3 H4 O2



IC ICM C09D133-02
 ICS C09C003-10; C09D017-00; C09D139-00
 CC 42-10 (Coatings, Inks, and Related Products)
 Section cross-reference(s): 35, 46
 IT Dispersing agents
 (anionic, acrylic polymers, for pigments,
 for glossy coatings)
 IT Coating materials
 (glossy, storage-stable, aqueous dispersions, containing
 pigments and anionic acrylic polymer
 dispersants)
 IT 153314-57-9P
 RL: PREP (Preparation)
 (preparation of, as dispersants for pigments, for glossy
 coatings)
 L138 ANSWER 16 OF 22 HCAPLUS COPYRIGHT 2009 ACS ON STN
 ACCESSION NUMBER: 1992:107781 HCAPLUS Full-text
 DOCUMENT NUMBER: 116:107781
 ORIGINAL REFERENCE NO.: 116:18255a,18258a
 TITLE: Microencapsulation of hydrophobic materials
 with aminoplasts
 INVENTOR(S): Masuda, Toshiaki; Fujie, Koji
 PATENT ASSIGNEE(S): Matsumoto Yushi-Seiyaku Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 03238038	A	19911023	JP 1990-34774	1990 0215

PRIORITY APPLN. INFO.: <--
 JP 1990-34774
 <--
 1990
 0215

ED Entered STN: 20 Mar 1992

AB The title process can be carried out without agglomeration, thickening, or foaming, in the presence of anionic polyelectrolytes comprising vinylpyrrolidone (I), α , β -ethylenically unsatd. carboxylic acids, and phosphoric acid group-containing monomers and/or sulfo group-containing monomers. I 20, acrylic acid 60, and Phosmer PE 20 parts were polymerized in the presence of K2S2O8 in water, and the polymerization mixture adjusted to pH 4.5 with 20% aqueous NaOH to give a 20%-solids anionic polyelectrolyte solution. A jasmine perfume was emulsified in water using the above polyelectrolyte solution and microencapsulated by melamine resin.

IT 139163-03-4P 139163-04-5P
 RL: PREP (Preparation)
 (manufacture of, for dispersants for hydrophobic materials
 for microencapsulation)

RN 139163-03-4 HCAPLUS

CN 2-Propenoic acid, polymer with 1-ethenyl-2-pyrrolidinone and
 α -(2-methyl-1-oxo-2-propenyl)- ω -(phosphonoxy)poly(oxy-
 1,2-ethanediy) (9CI) (CA INDEX NAME)

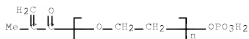
10/591,654-306094-EIC SEARCH

CM 1

CRM 35705-94-3

CMF (C2 H4 O)n C4 H7 O5 P

CCI PMS



CM 2

CRM 88-12-0

CMF C6 H9 N O



CM 3

CRM 79-10-7

CMF C3 H4 O2



RN 139163-04-5 HCAPLUS

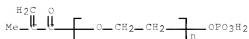
CN 2-Propenoic acid, polymer with 1-ethenyl-2-pyrrolidinone,
2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid and
α-(2-methyl-1-oxo-2-propenyl)-ω-(phosphonoxy)poly(oxy-
1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRM 35705-94-3

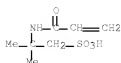
CMF (C2 H4 O)n C4 H7 O5 P

CCI PMS



CM 2

CRN 15214-89-8
CMF C7 H13 N O4 S



CM 3

CRN 88-12-0
CMF C6 H9 N O



CM 4

CRN 79-10-7
CMF C3 H4 O2



- IC ICM B01J013-18
CC 38-2 (Plastics Fabrication and Uses)
Section cross-reference(s): 62
ST perfume microencapsulation aminoplast; melamine resin
microencapsulation perfume; anionic polyelectrolyte
dispersant perfume; vinylpyrrolidone copolymer anionic
polyelectrolyte; acrylic acid copolymer anionic polyelectrolyte;
polyethylene glycol phosphate acrylate copolymer;
dispersant anionic polyelectrolyte
IT Dispersing agents
(anionic polyelectrolytes, for hydrophobic perfumes)
IT Epoxy resins, miscellaneous
RL: MSC (Miscellaneous)
(microencapsulation of liquid, with aminoplasts, anionic
polyelectrolyte dispersants in)
IT Polyelectrolytes
(anionic, dispersants, in
microencapsulation of hydrophobic materials with aminoplasts)
IT 58206-31-8, Scripset 520
RL: USES (Uses)
(dispersants containing anionic
polyelectrolytes and, for hydrophobic materials for
microencapsulation by aminoplasts)
IT 139163-03-4P 139163-04-5P

10/591,654-306094-EIC SEARCH

RL: PREP (Preparation)
(manufacture of, for dispersants for hydrophobic materials
for microencapsulation)

IT 9003-08-1 9011-05-6

RL: USES (Uses)
(microencapsulation by, of hydrophobic materials,
anionic polyelectrolyte dispersants in)

IT 1249-97-4 1552-42-7, Crystal Violet Lactone 25068-38-6,
Epikote 828

RL: PROC (Process)
(microencapsulation of, by aminoplasts, anionic
polyelectrolyte dispersants in)

L138 ANSWER 17 OF 22 HCAPLUS COPYRIGHT 2009 ACS ON STN

ACCESSION NUMBER: 1985:473673 HCAPLUS Full-text

DOCUMENT NUMBER: 103:73673

ORIGINAL REFERENCE NO.: 103:11843a,11846a

TITLE: Dispersants for soluble metalworking
oils

PATENT ASSIGNEE(S): Kao Corp., Japan; Nippon Kokan K. K.

SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59232186	A	19841226	JP 1983-108379	1983 0616

PRIORITY APPLN. INFO.:

<--

JP 1983-108379

1983
0616

<--

ED Entered STN: 07 Sep 1985

AB Water-soluble lubricant additives for indirect rolling emulsions to be dispersed into
cooling water or a lubricant are cationic, basic-N-containing cationic or amphoteric
water-soluble polymers or anionic water-soluble polymers containing carboxylic or
sulfonic acids. Thus, a lubricating mixture is manufactured by mixing Number 30 motor
oil 94.9, poly(diethylaminomethyl methacrylate) phosphate [95243-19-9] 1.0,
polyisobutylene [9003-27-4] 5.0, and N-alkyltrimethylenediamine dioleate 0.1 weight
part.

IT 9003-04-7 60472-42-6 91365-62-7

91365-66-1 91379-98-5 91380-05-1

91380-06-2 91387-89-2

RL: USES (Uses)
(water-soluble dispersants, for metal rolling
lubricants)

RN 9003-04-7 HCAPLUS

CN 2-Propenoic acid, homopolymer, sodium salt (CA INDEX NAME)

CM 1

CRN 9003-01-4

CMF (C3 H4 O2)x

CCI PMS

CM 2

CRN 79-10-7

CMF C3 H4 O2



RN 60472-42-6 HCAPLUS
 CN 2-Butenedioic acid (2Z)-, polymer with 2-propenoic acid, sodium salt (CA INDEX NAME)

CM 1

CRN 29132-58-9
 CMF (C4 H4 O4 . C3 H4 O2)x
 CCI PMS

CM 2

CRN 110-16-7
 CMF C4 H4 O4

Double bond geometry as shown.



CM 3

CRN 79-10-7
 CMF C3 H4 O2



RN 91365-62-7 HCAPLUS
 CN Pyridinium, ethenyl-1-methyl-, methyl sulfate, polymer with 1-ethenyl-2-pyrrolidinone and sodium 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 7446-81-3
 CMF C3 H4 O2 . Na



● Na

CM 2

10/591,654-306094-EIC SEARCH

CRN 88-12-0
CMF C6 H9 N O



CM 3

CRN 91365-61-6
CMF C8 H10 N . C H3 O4 S

CM 4

CRN 56816-73-0
CMF C8 H10 N
CCI IDS



D1-CH=CH2

CM 5

CRN 21228-90-0
CMF C H3 O4 S

Me-O-SO3-

RN 91365-66-1 HCAPLUS
CN 2-Propenoic acid, sodium salt, polymer with ethenylpyridine
phosphate and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 7446-81-3
CMF C3 H4 O2 . Na



CM 2

CRN 88-12-0

CMF C6 H9 N O



CM 3

CRN 91365-65-0

CMF C7 H7 N . x H3 O4 P

CM 4

CRN 7664-38-2

CMF H3 O4 P



CM 5

CRN 1337-81-1

CMF C7 H7 N

CCI IDS



RN 91379-98-5 HCAPLUS

CN 2-Propenoic acid, sodium salt, polymer with ethenylpyridine sulfate and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 7446-81-3

CMF C3 H4 O2 . Na



CM 2

CRN 88-12-0

CMF C6 H9 N O



CM 3

CRN 91379-97-4

CMF C7 H7 N . x H2 O4 S

CM 4

CRN 7664-93-9

CMF H2 O4 S



CM 5

CRN 1337-81-1

CMF C7 H7 N

CCI IDS



10/591,654-306094-EIC SEARCH

RN 91380-05-1 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, 2-(diethylamino)ethyl ester, compd.
 with boric acid (H3BO3), polymer with 1-ethenyl-2-pyrrolidinone
 and sodium 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 7446-81-3
 CMF C3 H4 O2 . Na



CM 2

CRN 88-12-0
 CMF C6 H9 N O



CM 3

CRN 91380-04-0
 CMF C10 H19 N O2 . x B H3 O3

CM 4

CRN 10043-35-3
 CMF B H3 O3



CM 5

CRN 105-16-8
 CMF C10 H19 N O2



RN 91380-06-2 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, 2-(diethylamino)ethyl ester, phosphate, polymer with sodium 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 5536-61-8
 CMF C4 H6 O2 . Na



CM 2

CRN 14480-03-6
 CMF C10 H19 N O2 . x H3 O4 P

CM 3

CRN 7664-38-2
 CMF H3 O4 P



CM 4

CRN 105-16-8
 CMF C10 H19 N O2



RN 91387-89-2 HCAPLUS
 CN 2-Propenoic acid, sodium salt, polymer with N-[2-(diethylamino)ethyl]-2-methyl-2-propenamide phosphate and sodium ethenesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 7446-81-3
 CMF C3 H4 O2 . Na



CM 2

CRN 3039-83-6

CMF C2 H4 O3 S . Na



CM 3

CRN 91387-88-1

CMF C10 H20 N2 O . x H3 O4 P

CM 4

CRN 13173-42-7

CMF C10 H20 N2 O



CM 5

CRN 7664-38-2

CMF H3 O4 P



IC ICM C10M001-06
 ICS B21B045-02; C10M001-28; C10M001-32; C10M001-40
 CC 51-8 (Fossil Fuels, Derivatives, and Related Products)
 Section cross-reference(s): 38
 ST lubricant rolling dispersant indirect; cationic polymer
 dispersant rolling lubricant; anionic
 polymer dispersant rolling lubricant; amphoteric
 polymer dispersant rolling lubricant; nitrogen compd

10/591,654-306094-EIC SEARCH

cationic dispersant lubricant
 IT Fatty acids, polymers
 RL: USES (Uses)
 (dimers, polymers with diethylenetriamine salts,
 water-soluble dispersants, for metal rolling lubricants)
 IT Polyelectrolytes
 (dispersants, for metal cold-rolling lubricants)
 IT Dispersing agents
 (water-soluble polymer salts, for metal rolling
 lubricants)
 IT Lubricating oil additives
 (dispersants, rolling, water-soluble polymer
 salts)
 IT 9003-04-7 9004-34-6D, cationic ammonium derivs.
 26658-46-8 41209-96-5 43134-20-9 52501-07-2 55141-01-0
 57578-39-9D, polymers with dimer acids 60472-42-6
 83446-68-8 91365-62-7 91365-66-1
 91379-82-7D, polymers with dimer acids 91379-98-5
 91380-05-1 91380-06-2 91380-14-2
 91380-15-3 91387-89-2 96397-70-5 97521-20-5
 97696-03-2 97696-04-3 97709-59-6
 RL: USES (Uses)
 (water-soluble dispersants, for metal rolling
 lubricants)
 IT 95243-19-9
 RL: USES (Uses)
 (water-soluble dispersants, for rolling emulsion
 lubricants)

L138 ANSWER 18 OF 22 HCAPLUS COPYRIGHT 2009 ACS ON STN

ACCESSION NUMBER: 1984:35784 HCAPLUS Full-text

DOCUMENT NUMBER: 100:35784

ORIGINAL REFERENCE NO.: 100:5551a,5554a

TITLE: Concentrated liquid compositions of

cold-dyeing fiber-reactive dyes

INVENTOR(S): Hoguet, Robert G.; Kalz, Dietmar; Thomas,
 Thomas J.; Whetsell, Henry T.; Wolff, Joachim;
 Nonn, Konrad; Wolf, Karlheinz

PATENT ASSIGNEE(S): Bayer A.-G. , Fed. Rep. Ger.; Mobay Chemical
 Corp.

SOURCE: Eur. Pat. Appl., 34 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	---	-----	-----	-----
EP 92119	A2	19831026	EP 1983-103418	1983 0408
			<--	
EP 92119	A3	19841107		
R: CH, DE, FR, GB, LI				
US 4435181	A	19840306	US 1982-370426	1982 0421
			<--	
JP 58187460	A	19831101	JP 1983-65768	1983 0415
			<--	
BR 8302071	A	19831227	BR 1983-2071	1983 0420

10/591,654-306094-EIC SEARCH

CA 1205253

A1

19860603

CA 1983-443149

1983

1213

PRIORITY APPLN. INFO.:

US 1982-370426

A

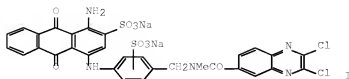
1982

0421

OTHER SOURCE(S): MARPAT 100:35784

ED Entered STIN: 12 May 1984

GI



AB Storage-stable, aqueous cold-dyeing reactive dye compns. are prepared which contain 10-50 weight% dye(s) with a fiber-reactive haloheterocyclic group and particle size <100 μ , sufficient anionic dispersant or polymeric N-vinyl lactam dispersant to prevent agglomeration or settling out of dye particles, and sufficient electrolyte to inhibit hydrolysis of the reactive group during temperature cycles ranging from 20° to 50°. A typical composition, stable for 3 wk during temperature cycles of 16 h at 20° and 8 h at 50°, contained dye I [78246-64-7] 31.5, lignosulfonate dispersant 3.0, NaCl 15.0, KH2PO4 0.2, K2HPO4 0.2, and H2O 50.0%.

IT 7758-11-4

RL: USES (Uses)

(buffers, concentrated aqueous fiber-reactive dye compns. containing, storage-stable)

RN 7758-11-4 HCAPLUS

CN Phosphoric acid, potassium salt (1:2) (CA INDEX NAME)



● K

IT 9003-39-8

RL: USES (Uses)

(dispersing agents, concentrated aqueous fiber-reactive dye compns. containing, storage-stable)

RN 9003-39-8 HCAPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



IT 7647-14-5, uses and miscellaneous
 RL: USES (Uses)
 (fiber-reactive dye compns. containing, concentrated aqueous,
 hydrolysis-resistant)
 RN 7647-14-5 HCAPLUS
 CN Sodium chloride (NaCl) (CA INDEX NAME)

Cl_Na

IC C09B067-26; D06P001-38
 CC 40-6 (Textiles)
 Section cross-reference(s): 41
 IT 7758-11-4 7778-77-0
 RL: USES (Uses)
 (buffers, concentrated aqueous fiber-reactive dye compns. containing,
 storage-stable)
 IT 8062-15-5D, alkali metal salts 9003-39-8
 28299-41-4D, sulfonated, reaction products with
 formaldehyde
 RL: USES (Uses)
 (dispersing agents, concentrated aqueous
 fiber-reactive dye compns. containing, storage-stable)
 IT 7647-14-5, uses and miscellaneous
 RL: USES (Uses)
 (fiber-reactive dye compns. containing, concentrated aqueous,
 hydrolysis-resistant)
 OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE
 THIS RECORD (1 CITINGS)

L138 ANSWER 19 OF 22 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1980:473673 HCAPLUS Full-text
 DOCUMENT NUMBER: 93:73673
 ORIGINAL REFERENCE NO.: 93:11971a,11974a
 TITLE: Aqueous dye preparations of
 water-insoluble to slightly soluble dyes
 INVENTOR(S): Becker, Carl
 PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
 SOURCE: Eur. Pat. Appl., 44 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----		-----	-----	
EP 7604	A1	19800206	EP 1979-102591	1979 0723
EP 7604	B1	19810819		
R: CH, DE, FR,	GB, IT			
US 4265631	A	19810505	US 1979-60425	

10/591,654-306094-EIC SEARCH

1979
0725

JP 55023194

A

19800219

<--
JP 1979-981591979
0802

JP 63031516

B

19880624

<--

PRIORITY APPLN. INFO.:

CH 1978-8238

A

1978
0802

<--

ED Entered STN: 12 May 1984

AB Storage-stable, concentrated aqueous pastes or suspensions eventually free of destabilizing electrolytes, e.g. anionic dispersants, contain 210% H₂O, 25-60% finely dispersed water-insol. dye or fluorescent whitener, 0.1-5% water-soluble aminoplast precondensate(s), 0.5-5% nonionic ethylene oxide (I)-olefin oxide copolymer (>65% I, mol. weight >12,000), and optionally nonionic additives. Thus, a mixture of electrolyte-free 1-amino-4-anilino-2-cyanoanthraquinone 450, 80:20 I-propylene oxide copolymer [9003-11-6] (mol. weight 16,500) 30, 67% aqueous solution of methylated melamine-formaldehyde precondensate [9003-08-1] 30, H₂O 300, propylene glycol 170, and HCHO (preservative) 20 parts was milled to particle size <50 μ and mixed with 0.1% xanthan gum [11138-66-2] to give a 45% dye preparation which remained fluid and filterable and showed very little change in viscosity or degree of dispersity after several wk. at 60° or several mo. at room temperature

IT 9003-01-4 26124-21-0

RL: USES (Uses)

(thickening agents, for aqueous disperse dye preparation,
nonionic dispersing agents compatible with)

RN 9003-01-4 HCAPLUS

CN 2-Propenoic acid, homopolymer (CA INDEX NAME)

CM 1

CRN 79-10-7

CMF C3 H4 O2



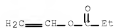
RN 26124-21-0 HCAPLUS

CN Propanoic acid, ethenyl ester, polymer with
1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

CRN 105-38-4

CMF C5 H8 O2



CM 2

CRN 88-12-0

CMF C6 H9 N O



IC C09B067-46; D06P001-16; D06P005-00; D06P001-52
 CC 39-7 (Textiles)
 IT Inks
 (aqueous disperse dye preps. for, storage-stable)
 IT 9003-11-6
 RL: USES (Uses)
 (dispersing agents, containing aminoplast precondensate, aqueous dye
 preps. containing, storage-stable)
 IT 9003-08-1 9011-05-6 25036-13-9 27013-01-0 28931-47-7
 31135-89-4 53037-34-6 74464-09-8 74464-11-2
 RL: USES (Uses)
 (dispersing agents, containing ethylene oxide-propylene oxide
 copolymer, aqueous dye preparation containing, storage-stable)
 IT 88-12-0D, copolymers 9003-01-4 9004-64-2 9005-38-3
 26124-21-0
 RL: USES (Uses)
 (thickening agents, for aqueous disperse dye preparation,
 nonionic dispersing agents compatible with)
 IT 11138-66-2
 RL: USES (Uses)
 (thickening agents, for aqueous disperse dye preps.,
 nonionic dispersing agents compatible with)
 OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE
 THIS RECORD (3 CITINGS)

L138 ANSWER 20 OF 22 HCAPLUS COPYRIGHT 2009 ACS ON STN
 ACCESSION NUMBER: 1977:197848 HCAPLUS Full-text
 DOCUMENT NUMBER: 86:197848
 ORIGINAL REFERENCE NO.: 86:30949a,30952a
 TITLE: Color dispersions in synthetic polymeric
 vehicles
 AUTHOR(S): Mowrey, Rowland G.; Sutton, Richard C.; Klein,
 Gerald W.
 CORPORATE SOURCE: UK
 SOURCE: Research Disclosure (1976), 151,
 42-3 (No. 15131)
 CODEN: RDSDBB; ISSN: 0374-4353
 DOCUMENT TYPE: Journal; Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RD 151031		19761110	RD 1976-151031	1976 1110
				<--
PRIORITY APPLN. INFO.:			RD 1976-151031	1976 1110
				<--

ED Entered STN: 12 May 1984
 AB Coupler dispersions prepared with anionic terpolymers consisting of anionic moiety, a
 crosslinkable moiety, and a diluent moiety provide improved properties when
 incorporated in Ag halide materials adapted for conventional color processing or redox

10/591,654-306094-EIC SEARCH

amplification color processing. Thus, to a coarse grain gelatin-Ag halide emulsion was added a coupler dispersion prepared by dissolving a yellow dye-forming coupler 6 g in di-Bu phthalate 1.5 and EtOAc 12 g and then dispersing in a 10% solution of 2-acetoacetoxyethyl methacrylate-N-isopropylacrylamide-Na 3-methacryloyloxypropane-1-sulfonate polymer (14.5:54:31.5) 60 g containing Na triisopropyl naphthalenesulfonate 0.6 ml. The resulting emulsion was then coated on a polyethylene-coated paper support at Ag 15, coupler 100, coupler vehicle 100, and make-up vehicle 150 mg/ft². The element was then sensitometrically exposed and developed for 3.5 min to show a γ of 3.1, a Dmin of 0.15, and a Dmax of 2.02 vs. 2.8, 0.12, and 1.90, resp., for a control containing gelatin as the vehicle.

IT 62627-96-7 62627-98-9

RL: USES (Uses)

(in photog. color coupler dispersion preparation)

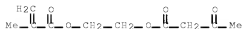
RN 62627-96-7 HCAPLUS

CN Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with N-(1-methylethyl)-2-propenamide and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 21282-97-3

CMF C10 H14 O5



CM 2

CRN 2210-25-5

CMF C6 H11 N O



CM 3

CRN 79-10-7

CMF C3 H4 O2



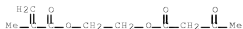
RN 62627-98-9 HCAPLUS

CN Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone and 3-sulfoethyl 2-methyl-2-propenoate sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 21282-97-3

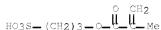
CMF C10 H14 O5



CM 2

CRN 10548-16-0

CMF C7 H12 O5 S . Na



● Na

CM 3

CRN 88-12-0

CMF C6 H9 N O



CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic Processes)

ST acrylic polymer photog coupler dispersion; anionic polymer photog coupler dispersion

IT Acrylic polymers, uses and miscellaneous
RL: USES (Uses)
(in photog. color coupler dispersion preparation)

IT Photographic couplers
(preparation of dispersions of, anionic terpolymers in)

IT 53934-20-6 54617-51-5 62627-96-7 62627-97-8
62627-98-9 62627-99-0
RL: USES (Uses)
(in photog. color coupler dispersion preparation)

L138 ANSWER 21 OF 22 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1975:113134 HCAPLUS Full-text

DOCUMENT NUMBER: 82:113134

ORIGINAL REFERENCE NO.: 82:18083a,18086a

TITLE: Fluorescent whitening and shrinkproofing of cellulosic fiber products

INVENTOR(S): Nishikubo, Toshiki; Arima, Yasunori; Ichikawa, Michio

PATENT ASSIGNEE(S): Kanebo, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

10/591,654-306094-EIC SEARCH

LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 49093677	A	19740905	JP 1973-7152	1973 0116
JP 52039476	B	19771005	<--	
PRIORITY APPLN. INFO.:			JP 1973-7152	A 1973 0116
			<--	

ED Entered STN: 12 May 1984

AB Fluorescent whitening and resin treatment (shrinkproofing) of cellulosic fiber products, such as cotton textiles, are processed in one step by treating the textiles with an aqueous dispersion containing an anionic fluorescent dye, poly(vinylpyrrolidone) (I) [9003-39-8], an acidic metal salt, and a resin. Thus, a cotton textile was dipped in a bath containing Hakkol BK Konk [54650-78-1] (an anionic fluorescent whitening agent) 0.2, I (mol. weight 40,000) 0.2, dimethyldihydroxyethyleneurea [1854-26-8] 5, and MgCl₂ 0.5%, squeezed (70% pickup), dried 5 min at 100°, heated 3 min at 150°, washed with soap water, and dried to give a white, shrinkproof textile.

IT 9003-39-8

RL: USES (Uses)

(in fluorescent brightening-shrinkproofing of cellulosic textiles, in single step)

RN 9003-39-8 HCAPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



INCL 48B04; 48D71

CC 39-10 (Textiles)

IT 9003-39-8

RL: USES (Uses)

(in fluorescent brightening-shrinkproofing of cellulosic textiles, in single step)

L138 ANSWER 22 OF 22 HCAPLUS COPYRIGHT 2009 ACS ON STN

ACCESSION NUMBER: 1971:23350 HCAPLUS Full-text

DOCUMENT NUMBER: 74:23350

ORIGINAL REFERENCE NO.: 74:3785a,3788a

TITLE: Thermoplastic alloys of finely divided polylactams polymerized with alkaline catalyst and cocatalyst in a high molecular weight olefinic polymer matrix
 Hill, Robert William; Anderson, Raymond P.; Scroggins, Stanley V.

INVENTOR(S): Gulf Research and Development Co.
 PATENT ASSIGNEE(S): U.S., 3 pp.
 SOURCE:

10/591,654-306094-EIC SEARCH

DOCUMENT TYPE: CODEN: USXXAM
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: English
 PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3539662	A	19701110	US 1968-744333	1968 0712
NL 6910722	A	19700114	NL 1969-10722	1969 0711
PRIORITY APPLN. INFO.:				1968 0712

ED Entered STN: 12 May 1984

AB Thermoplastic polymer alloys are prepared by dispersing a lactam in a matrix of a high-mol.-weight polyethylene or ethylene copolymer and then adding an alkaline catalyst and cocatalyst to polymerize the lactam. Thus, caprolactam and a small amount of polyethylene glycol (as a dispersion aid) was mixed with an ethylene-vinylpyrrolidinone copolymer in a Brabender Plasti-Corder, under N. N-Acetylcaprolactam and PhMgBr in ether were added and the lactam was polymerized for 25 min. The alloy obtained showed strong absorption bands characteristic of nylon 6. The alloys were useful for molding, extrusion, or coating applications. Addnl. suitable copolymers included ethylene-vinyl acetate copolymers, ethylene-lower alkyl methacrylate copolymers, and ethylene-lower alkyl acrylate copolymers. Pyrogenic colloidal silica, dodecyltrimethylammonium chloride, and ethylene-acrylic acid copolymers were also effective dispersing aids.

IT 25067-33-8P, uses and miscellaneous
 RL: PREP (Preparation)
 (caprolactam polymers dispersed in, manufacture of)

RN 25067-33-8 HCAPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, polymer with ethene (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



CM 2

CRN 74-85-1

CMF C2 H4



10/591,654-306094-EIC SEARCH

IT 9010-77-9, uses and miscellaneous
 RL: USES (Uses)
 (dispersing agents, for caprolactam in ethylene
 copolymers)
 RN 9010-77-9 HCAPLUS
 CN 2-Propenoic acid, polymer with ethene (CA INDEX NAME)
 CM 1
 CRN 79-10-7
 CMF C3 H4 O2



CM 2
 CRN 74-85-1
 CMF C2 H4



IC C08G041-04A
 INCL 260857000
 CC 36 (Plastics Manufacture and Processing)
 ST alloy polycaprolactam ethylene copolymer;
 polycaprolactam ethylene copolymer alloy; ethylene
 copolymer polycaprolactam alloy; molding nylon
 polyethylene alloy; nylon polyethylene alloy molding; coating
 polyolefin polylactam alloy; polyolefin
 polylactam alloy coating; polylactam polyolefin
 alloy coating
 IT Polymerization catalysts
 (acetylcaprolactam-phenylmagnesium bromide, for
 caprolactam dispersed in ethylene copolymers)
 IT Polymerization
 (anionic, of caprolactam dispersed
 in ethylene copolymers)
 IT Polyamides, preparation
 RL: PREP (Preparation)
 (dispersions in ethylene copolymers)
 IT Dispersing agents
 (for caprolactam in ethylene copolymers)
 IT 25067-33-8P, uses and miscellaneous
 RL: PREP (Preparation)
 (caprolactam polymers dispersed in, manufacture
 of)
 IT 100-58-3 1888-91-1
 RL: CAT (Catalyst use); USES (Uses)
 (catalysts, for polymerization of caprolactam in ethylene
 copolymers)
 IT 9010-77-9, uses and miscellaneous 25322-68-3
 RL: USES (Uses)
 (dispersing agents, for caprolactam in ethylene
 copolymers)
 IT 25038-54-4P
 RL: PREP (Preparation)

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(manufacture of, dispersed in ethylene copolymers)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE
THIS RECORD (1 CITINGS)

FULL SEARCH HISTORY

=> d his nofile

(FILE 'HOME' ENTERED AT 09:16:55 ON 28 AUG 2009)

FILE 'HCAPLUS' ENTERED AT 09:17:08 ON 28 AUG 2009

E US20070154438/PN

L1 1 SEA SPE=ON ABB=ON PLU=ON US20070154438/PN
 D ALL
 D SCA
 SEL RN

FILE 'REGISTRY' ENTERED AT 09:17:42 ON 28 AUG 2009

L2 6 SEA SPE=ON ABB=ON PLU=ON (134367-40-1/BI OR
 28133-65-5/BI OR 2997-92-4/BI OR 6132-04-3/BI OR
 7757-82-6/BI OR 9003-39-8/BI)
 D SCA

FILE 'LREGISTRY' ENTERED AT 09:18:44 ON 28 AUG 2009

L3 STR

FILE 'REGISTRY' ENTERED AT 09:32:48 ON 28 AUG 2009

L4 50 SEA SSS SAM L3

L5 SCR 2043

L6 50 SEA SSS SAM L3 AND L5

D QUE STAT L4

D QUE STAT L6

L7 10986 SEA SSS FUL L3 AND L5

SAV TEMP L7 PEZ654REG/A

L8 61 SEA SPE=ON ABB=ON PLU=ON L7 AND 1/HC

FILE 'HCAPLUS' ENTERED AT 09:39:21 ON 28 AUG 2009

D SCA L1

L9 56482 SEA SPE=ON ABB=ON PLU=ON L7

L10 QUE SPE=ON ABB=ON PLU=ON SALT OR ELECTROLYT?

L11 QUE SPE=ON ABB=ON PLU=ON SUSPEN? OR DISPERS? OR

COLLOID? OR EMULG? OR MICROEMULS? OR SLURR?

L12 3337 SEA SPE=ON ABB=ON PLU=ON L9 AND L10 AND L11

L13 56173 SEA SPE=ON ABB=ON PLU=ON DISPERS?(2A) (POLYMERI? OR

ANION? OR AGENT)

L14 501 SEA SPE=ON ABB=ON PLU=ON L12 AND L13

D SCA L1

E "DISPERSING AGENTS"/CT

E E3+ALL

L15 QUE SPE=ON ABB=ON PLU=ON "DISPERSING AGENTS"/CT

E "DISPERSE SYSTEMS"/CT

E E3+ALL

L16 QUE SPE=ON ABB=ON PLU=ON "DISPERSE SYSTEMS"/CT

E "SALTS, USES"/CT

E E3+ALL

L17 QUE SPE=ON ABB=ON PLU=ON "SALTS, USES"/CT

L18 9 SEA SPE=ON ABB=ON PLU=ON L9 AND (L15 OR L16) AND

L17

D SCA

L19 502 SEA SPE=ON ABB=ON PLU=ON L14 OR L18

FILE 'REGISTRY' ENTERED AT 09:49:24 ON 28 AUG 2009

D SCA L2

L20 3 SEA SPE=ON ABB=ON PLU=ON L2 AND ?SALT?/CNS

D SCA

E E SODIUM SULFATE/CN

E SODIUM SULFATE/CN

L21 1 SEA SPE=ON ABB=ON PLU=ON SODIUM SULFATE/CN

E POTASSIUM SULFATE/CN

L22 1 SEA SPE=ON ABB=ON PLU=ON POTASSIUM SULFATE/CN

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L23 E AMMONIUM SULFATE/CN
 1 SEA SPE=ON ABB=ON PLU=ON AMMONIUM SULFATE/CN
 L24 E MAGNESIUM SULFATE/CN
 1 SEA SPE=ON ABB=ON PLU=ON MAGNESIUM SULFATE/CN
 L25 E ALUMINUM SULFATE/CN
 1 SEA SPE=ON ABB=ON PLU=ON ALUMINUM SULFATE/CN
 L26 E SODIUM CHLORIDE/CN
 1 SEA SPE=ON ABB=ON PLU=ON SODIUM CHLORIDE/CN
 L27 E POTASSIUM CHLORIDE/CN
 1 SEA SPE=ON ABB=ON PLU=ON POTASSIUM CHLORIDE/CN
 E SODIUM DIHYDROGENPHOSPHATE/CN
 L28 E SODIUM DIHYDROGEN PHOSPHATE/CN
 1 SEA SPE=ON ABB=ON PLU=ON SODIUM DIHYDROGEN PHOSPHATE
 /CN
 D SCA
 E DIAMMONIUM HYDROGENPHOSPHATE/CN
 L29 E DIAMMONIUM HYDROGEN PHOSPHATE/CN
 1 SEA SPE=ON ABB=ON PLU=ON DIAMMONIUM HYDROGEN
 PHOSPHATE/CN
 D SCA
 E DIPOTASSIUM HYDROGENPHOSPHATE/CN
 L30 E DIPOTASSIUM HYDROGEN PHOSPHATE/CN
 1 SEA SPE=ON ABB=ON PLU=ON DIPOTASSIUM HYDROGEN
 PHOSPHATE/CN
 D SCA
 E CALCIUM PHOSPHATE/CN
 L31 2 SEA SPE=ON ABB=ON PLU=ON CALCIUM PHOSPHATE/CN
 D SCA
 E SODIUM CITRATE/CN
 L32 2 SEA SPE=ON ABB=ON PLU=ON SODIUM CITRATE/CN
 D SCA
 E IRON SULFATE/CN
 L33 1 SEA SPE=ON ABB=ON PLU=ON IRON SULFATE/CN
 D SCA
 E CALCIUM NITRATE/CN
 L34 1 SEA SPE=ON ABB=ON PLU=ON CALCIUM NITRATE/CN
 E SODIUM NITRATE/CN
 L35 1 SEA SPE=ON ABB=ON PLU=ON SODIUM NITRATE/CN
 E AMMONIUM NITRATE/CN
 L36 1 SEA SPE=ON ABB=ON PLU=ON AMMONIUM NITRATE/CN
 E ALUMINUM NITRATE/CN
 L37 1 SEA SPE=ON ABB=ON PLU=ON ALUMINUM NITRATE/CN
 E SODIUM THIOCYANATE/CN
 L38 1 SEA SPE=ON ABB=ON PLU=ON SODIUM THIOCYANATE/CN
 E SODIUM IODIDE/CN
 L39 1 SEA SPE=ON ABB=ON PLU=ON SODIUM IODIDE/CN
 L40 23 SEA SPE=ON ABB=ON PLU=ON (L20 OR L21 OR L22 OR L23
 OR L24 OR L25 OR L26 OR L27 OR L28 OR L29 OR L30 OR
 L31 OR L32 OR L33 OR L34 OR L35 OR L36 OR L37 OR L38
 OR L39)
 D SCA L21
 D SCA L32
 E SODIUM CITRATE/CN
 E SODIUM CITRATE/CN 25
 L41 3 SEA SPE=ON ABB=ON PLU=ON ("SODIUM CITRATE ANHYDROUS"
 /CN OR "SODIUM CITRATE DIHYDRATE"/CN OR "SODIUM
 CITRATE HYDRATE"/CN)
 D SCA
 L42 24 SEA SPE=ON ABB=ON PLU=ON L40 OR L41

FILE 'LREGISTRY' ENTERED AT 10:10:50 ON 28 AUG 2009
 L43 STR

FILE 'REGISTRY' ENTERED AT 10:20:45 ON 28 AUG 2009
 L44 50 SEA SSS SAM L43

FILE 'STNGUIDE' ENTERED AT 10:24:24 ON 28 AUG 2009

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FILE 'LREGISTRY' ENTERED AT 10:28:49 ON 28 AUG 2009

FILE 'REGISTRY' ENTERED AT 10:29:01 ON 28 AUG 2009

L45 SCR 1199
 L46 SCR 1929 OR 2025 OR 2019 OR 2026 OR 1992 OR 2021
 L47 50 SEA SSS SAM L43 AND L45 NOT L46
 D QUE
 L48 SCR 1929 OR 2025 OR 2019 OR 2026 OR 1992 OR 2021 OR 195
 L49 50 SEA SSS SAM L43 AND L45 NOT L48
 L50 SCR 1929 OR 2025 OR 2019 OR 2026 OR 1992 OR 2021 OR 194
 L51 50 SEA SSS SAM L43 AND L45 NOT L50
 L52 370456 SEA SSS FUL L43 AND L45 NOT L50
 L53 1 SEA SPE=ON ABB=ON PLU=ON L2 AND L52
 D SCA
 D SCA L2
 L54 12870 SEA SPE=ON ABB=ON PLU=ON L52 AND A1/PG
 L55 15 SEA SPE=ON ABB=ON PLU=ON L52 AND ?AMMONIUM?/CNS
 D SCA
 E ACRYLIC ACID/CN
 L56 1 SEA SPE=ON ABB=ON PLU=ON ACRYLIC ACID/CN
 D
 E POLYACRYLIC ACID/CN
 L57 1 SEA SPE=ON ABB=ON PLU=ON ACRYLIC ACID HOMOPOLYMER/CN
 D
 L58 70107 SEA SPE=ON ABB=ON PLU=ON 79-10-7/RN,CRN
 L59 1 SEA SPE=ON ABB=ON PLU=ON 9003-01-4/RN
 E METHARYLIC ACID/CN
 E METHYLARYLIC ACID/CN
 E METHARYLIC ACID HOMOPOLYMER/CN
 E METHYLMETHARYLIC ACID HOMOPOLYMER/CN
 E METHACRYLIC ACID/CN
 L60 1 SEA SPE=ON ABB=ON PLU=ON METHACRYLIC ACID/CN
 D
 L61 54786 SEA SPE=ON ABB=ON PLU=ON 79-41-4/RN,CRN
 L62 118683 SEA SPE=ON ABB=ON PLU=ON L58 OR L59 OR L61
 L63 20091 SEA SPE=ON ABB=ON PLU=ON L62 AND (A1/PG OR ?AMMONIUM
 ?/CNS)
 L64 12559 SEA SPE=ON ABB=ON PLU=ON L52 AND ((FORMIC OR ACETIC
 OR CITRIC OR OXALIC OR MALONIC)/CNS AND ?ACID?/CNS)
 L65 5222 SEA SPE=ON ABB=ON PLU=ON L64 AND 1/NC
 L66 217193 SEA SPE=ON ABB=ON PLU=ON L52 AND 1/NC
 L67 77614 SEA SPE=ON ABB=ON PLU=ON L66 AND NO RSD/FA
 L68 139579 SEA SPE=ON ABB=ON PLU=ON L66 NOT L67
 L69 73787 SEA SPE=ON ABB=ON PLU=ON L66 AND 1/NR
 L70 56792 SEA SPE=ON ABB=ON PLU=ON L68 NOT L69
 L71 153263 SEA SPE=ON ABB=ON PLU=ON L52 NOT L66
 L72 56892 SEA SPE=ON ABB=ON PLU=ON L71 AND NO RSD/FA
 L73 96371 SEA SPE=ON ABB=ON PLU=ON L71 NOT L72

FILE 'HCAPLUS' ENTERED AT 10:55:54 ON 28 AUG 2009

L74 QUE SPE=ON ABB=ON PLU=ON L42
 L75 4262 SEA SPE=ON ABB=ON PLU=ON L9 AND L74
 L76 QUE SPE=ON ABB=ON PLU=ON (L54 OR L55 OR L56 OR L57
 OR L58 OR L59 OR L60 OR L61)
 L77 QUE SPE=ON ABB=ON PLU=ON L62
 L78 QUE SPE=ON ABB=ON PLU=ON (L63 OR L64 OR L65)
 L79 QUE SPE=ON ABB=ON PLU=ON L67
 L80 QUE SPE=ON ABB=ON PLU=ON L69 OR L70
 L81 QUE SPE=ON ABB=ON PLU=ON L72 OR L73
 L82 QUE SPE=ON ABB=ON PLU=ON L54 OR L55
 L83 QUE SPE=ON ABB=ON PLU=ON L63
 L84 4156 SEA SPE=ON ABB=ON PLU=ON L9 AND (L82 OR L83)
 L85 10249 SEA SPE=ON ABB=ON PLU=ON L9 AND L64
 L86 14383 SEA SPE=ON ABB=ON PLU=ON L75 OR L84 OR L85
 L87 297 SEA SPE=ON ABB=ON PLU=ON L86 AND L19

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L88 297 SEA SPE=ON ABB=ON PLU=ON L87 AND (L13 OR L15 OR L16)
 L89 981 SEA SPE=ON ABB=ON PLU=ON ?POLYM?(4A)ANION?(4A)DISPER
 S?
 L90 12 SEA SPE=ON ABB=ON PLU=ON L88 AND L89
 L91 1 SEA SPE=ON ABB=ON PLU=ON L1 AND L90
 D KWIC
 L92 15 SEA SPE=ON ABB=ON PLU=ON L19 AND L89
 L93 10948 SEA SPE=ON ABB=ON PLU=ON L41
 L94 561 SEA SPE=ON ABB=ON PLU=ON L86 AND L93
 D KWIC

 FILE 'REGISTRY' ENTERED AT 11:15:39 ON 28 AUG 2009
 D SCA L41

 FILE 'HCAPLUS' ENTERED AT 11:16:13 ON 28 AUG 2009
 E 300 KWIC
 D 300 KWIC
 L95 2 SEA SPE=ON ABB=ON PLU=ON L94 AND L89
 D SCA
 L96 25 SEA SPE=ON ABB=ON PLU=ON L86 AND L89
 L97 6017 SEA SPE=ON ABB=ON PLU=ON L9 AND L61
 L98 12616 SEA SPE=ON ABB=ON PLU=ON L9 AND L62
 L99 2242 SEA SPE=ON ABB=ON PLU=ON L98 AND L63
 L100 15 SEA SPE=ON ABB=ON PLU=ON L99 AND L89
 L101 25701 SEA SPE=ON ABB=ON PLU=ON L62 (3A) COPOLYMER
 L102 1424 SEA SPE=ON ABB=ON PLU=ON L9 AND L101
 L103 9 SEA SPE=ON ABB=ON PLU=ON L102 AND L89
 L104 27 SEA SPE=ON ABB=ON PLU=ON L90 OR L95 OR L96 OR L100
 OR L103
 L105 12 SEA SPE=ON ABB=ON PLU=ON L104 AND L19
 L106 33 SEA SPE=ON ABB=ON PLU=ON L104 OR L105 OR L18
 L107 2909 SEA SPE=ON ABB=ON PLU=ON ANION?(2A)DISPERS?
 L108 20 SEA SPE=ON ABB=ON PLU=ON L107 AND L106
 L109 12616 SEA SPE=ON ABB=ON PLU=ON (L97 OR L98 OR L99) OR
 L102
 L110 27 SEA SPE=ON ABB=ON PLU=ON L109 AND L89
 L111 32 SEA SPE=ON ABB=ON PLU=ON L109 AND L107
 L112 42 SEA SPE=ON ABB=ON PLU=ON L108 OR L110 OR L111
 L113 QUE SPE=ON ABB=ON PLU=ON VINYL(A)?LACTAM? OR
 VINYL LACTAM?
 L114 4 SEA SPE=ON ABB=ON PLU=ON L112 AND L113
 D SCA
 L115 1 SEA SPE=ON ABB=ON PLU=ON L1 AND L112
 D SCA
 L116 QUE SPE=ON ABB=ON PLU=ON ?LACTAM?
 E LACTAMS/CT 25
 E E3+ALL
 L117 QUE SPE=ON ABB=ON PLU=ON LACTAMS/CT
 L118 7 SEA SPE=ON ABB=ON PLU=ON L112 AND (L116 OR L117)
 D SCA
 L119 26 SEA SPE=ON ABB=ON PLU=ON L19 AND (L116 OR L117)
 L120 64 SEA SPE=ON ABB=ON PLU=ON L112 OR L114 OR L118 OR
 L119
 L121 QUE SPE=ON ABB=ON PLU=ON L2
 L122 416 SEA SPE=ON ABB=ON PLU=ON L19 AND L121
 L123 40 SEA SPE=ON ABB=ON PLU=ON L120 AND L121
 L124 10 SEA SPE=ON ABB=ON PLU=ON L122 AND L89
 L125 17 SEA SPE=ON ABB=ON PLU=ON L122 AND L107
 L126 31 SEA SPE=ON ABB=ON PLU=ON L120 AND L89
 L127 36 SEA SPE=ON ABB=ON PLU=ON L120 AND L107
 L128 49 SEA SPE=ON ABB=ON PLU=ON (L124 OR L125 OR L126 OR
 L127)
 L129 QUE SPE=ON ABB=ON PLU=ON PRODUC? OR PROD# OR
 GENERAT? OR MANUF? OR MFR# OR CREAT? OR FORM# OR
 FORMING# OR FORMAT? OR MAKE# OR MADE# OR MAKING# OR
 FABRICAT? OR SYNTHESI? OR PREPAR? OR PREP# OR PROCESS?

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OR METHOD?
L130 40 SEA SPE=ON ABB=ON PLU=ON L128 AND L129
L131 QUE SPE=ON ABB=ON PLU=ON PY=<2004 NOT P/DT
L132 0 SEA SPE=ON ABB=ON PLU=ON L130 AND L131
L133 QUE SPE=ON ABB=ON PLU=ON (PY=<2004 OR PRY=<2004 OR
AY=<2004 OR MY=<2004 OR REVIEW/DT) AND P/DT
L134 30 SEA SPE=ON ABB=ON PLU=ON L130 AND L133
L135 30 SEA SPE=ON ABB=ON PLU=ON L134 OR L132
D L1 CC
L136 QUE SPE=ON ABB=ON PLU=ON 37/SC, SX
L137 8 SEA SPE=ON ABB=ON PLU=ON L135 AND L136
SAV TEMP L135 PEZ654HCP/A
L138 22 SEA SPE=ON ABB=ON PLU=ON L135 NOT L137
SAV TEMP L137 PEZ654HCP/A
D QUE L135
D L137 1-8 IBIB ED ABS HITSTR HITIND
D L138 1-22 IBIB ED ABS HITSTR HITIND

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